

FIG. 1

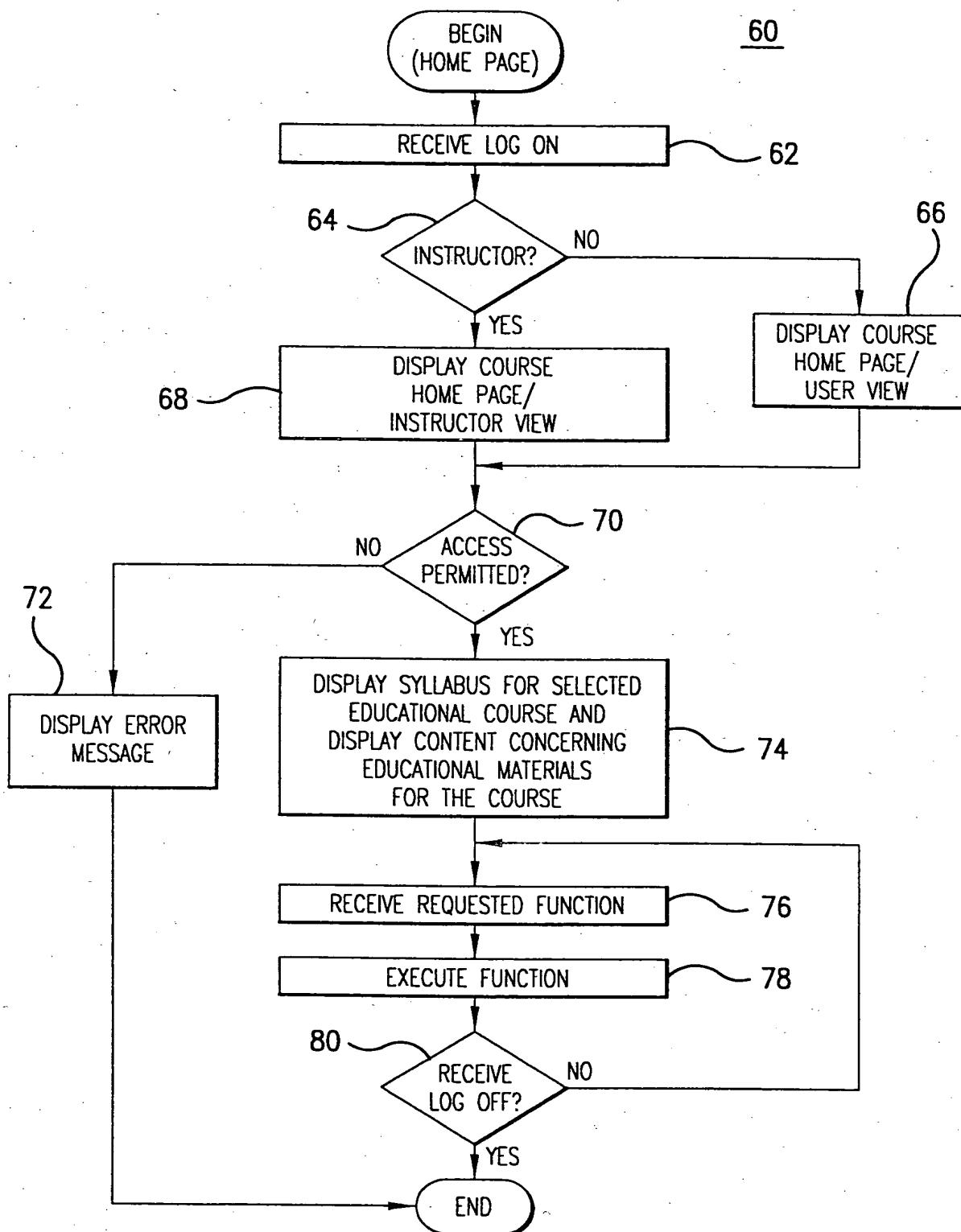


FIG. 1A

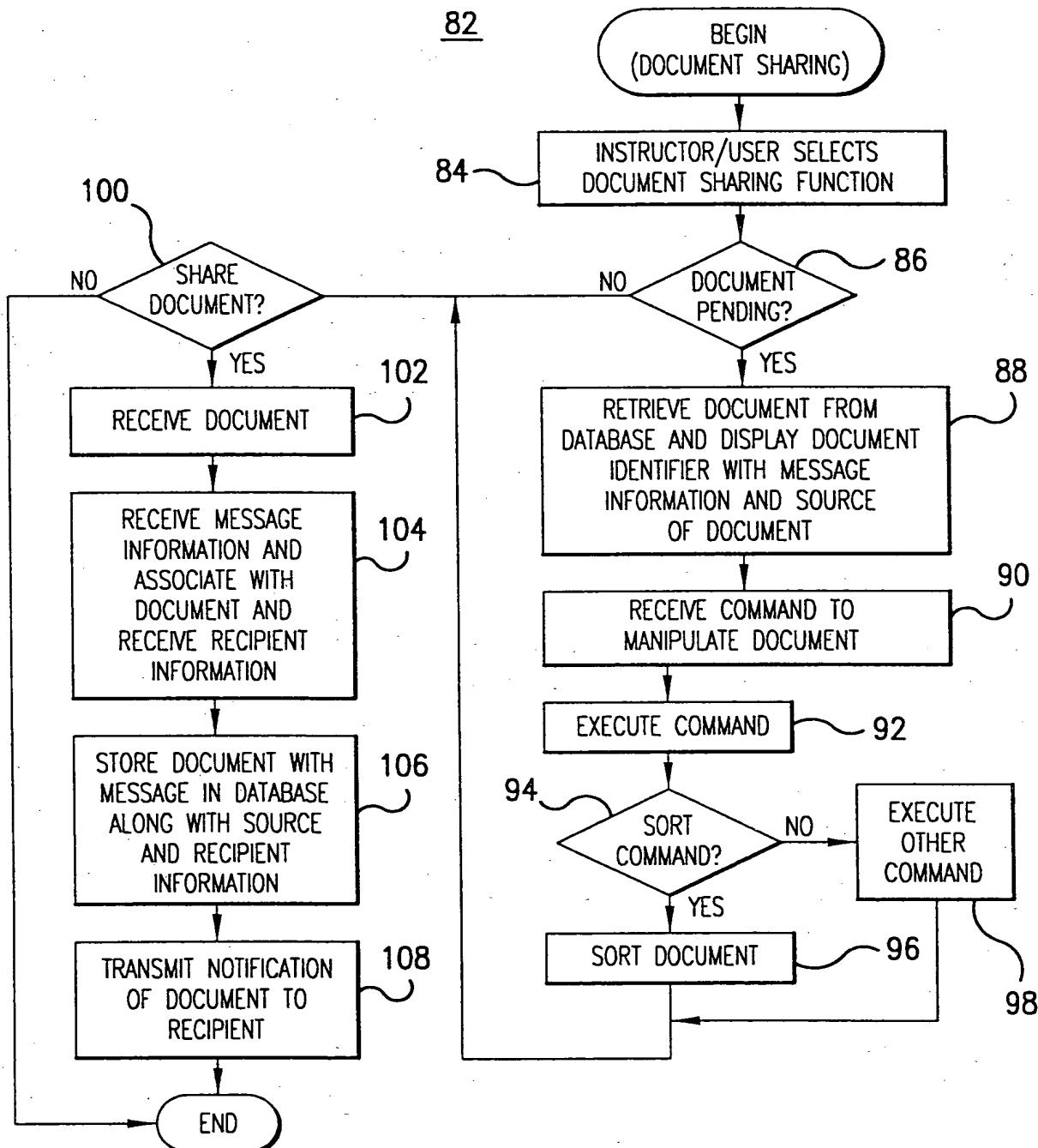


FIG. 1B

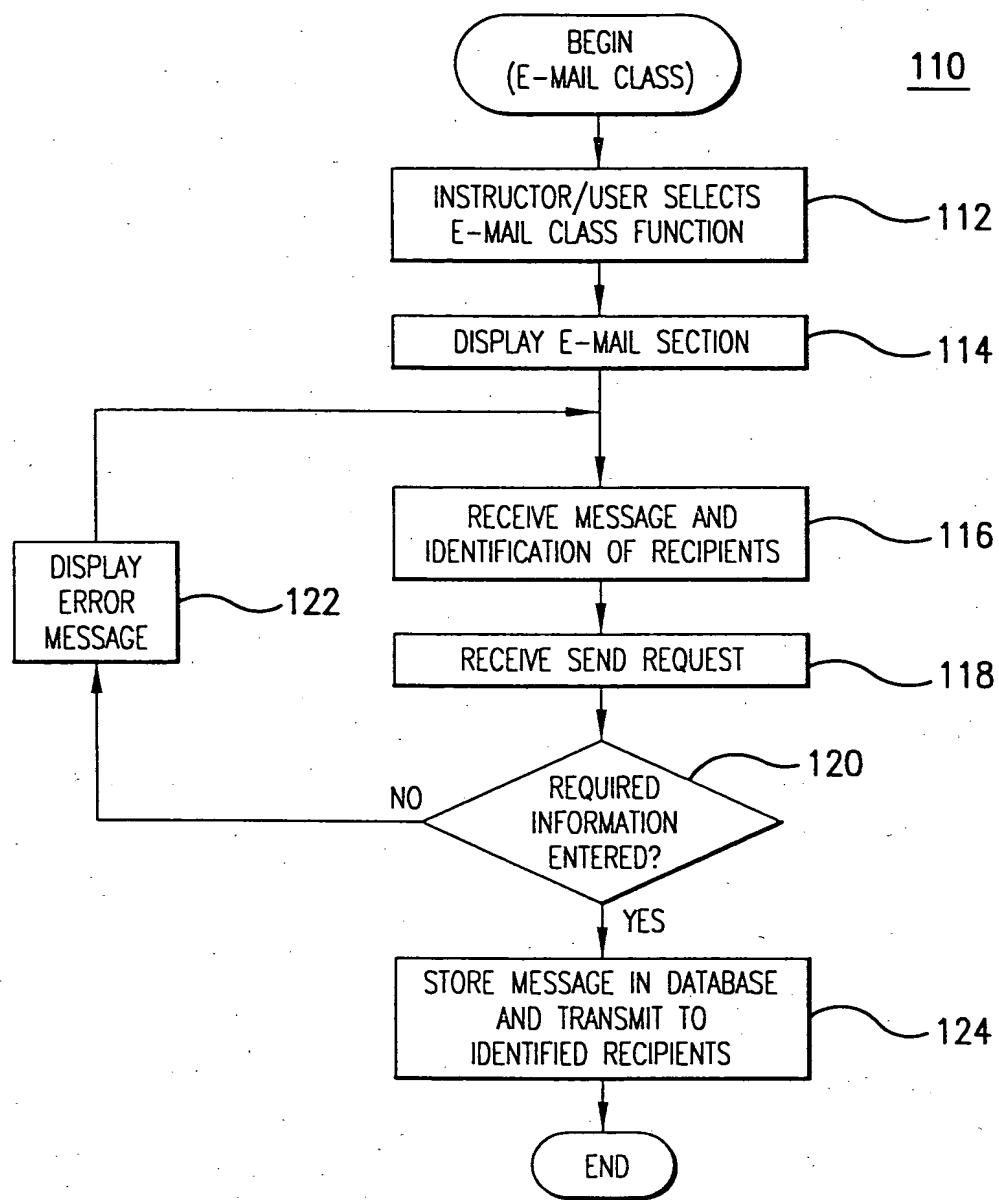


FIG. 1C

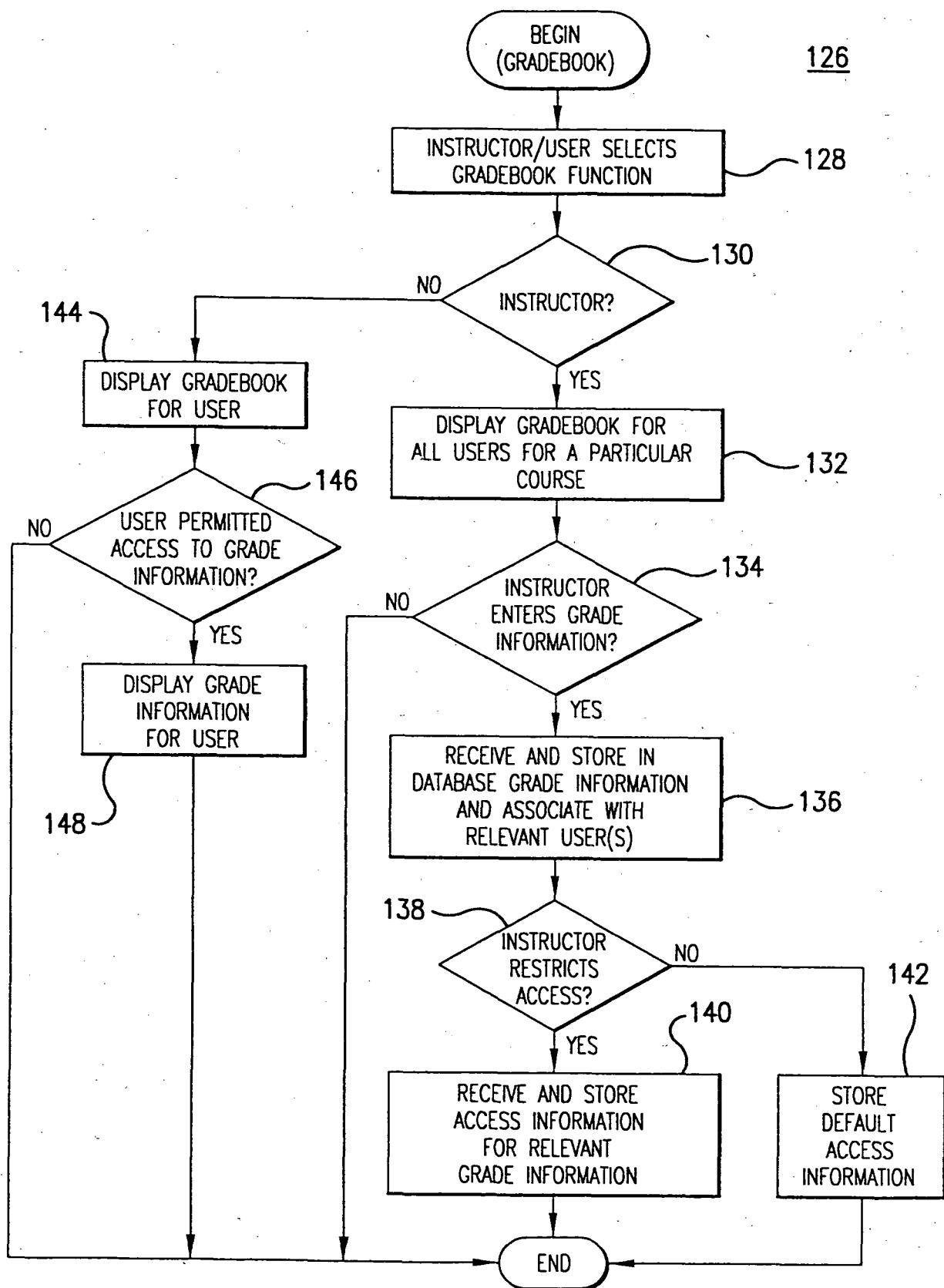


FIG. 1D

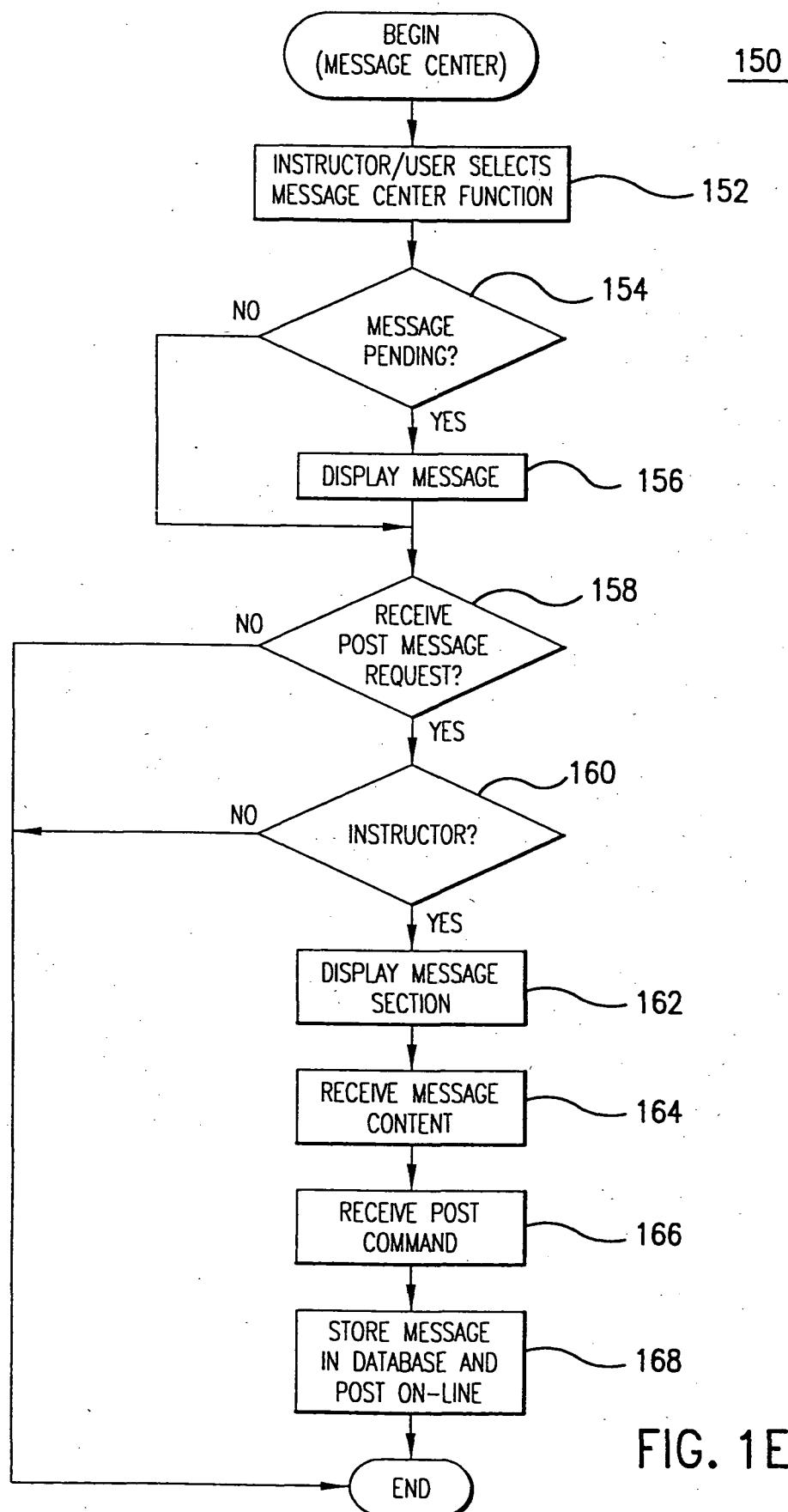


FIG. 1E

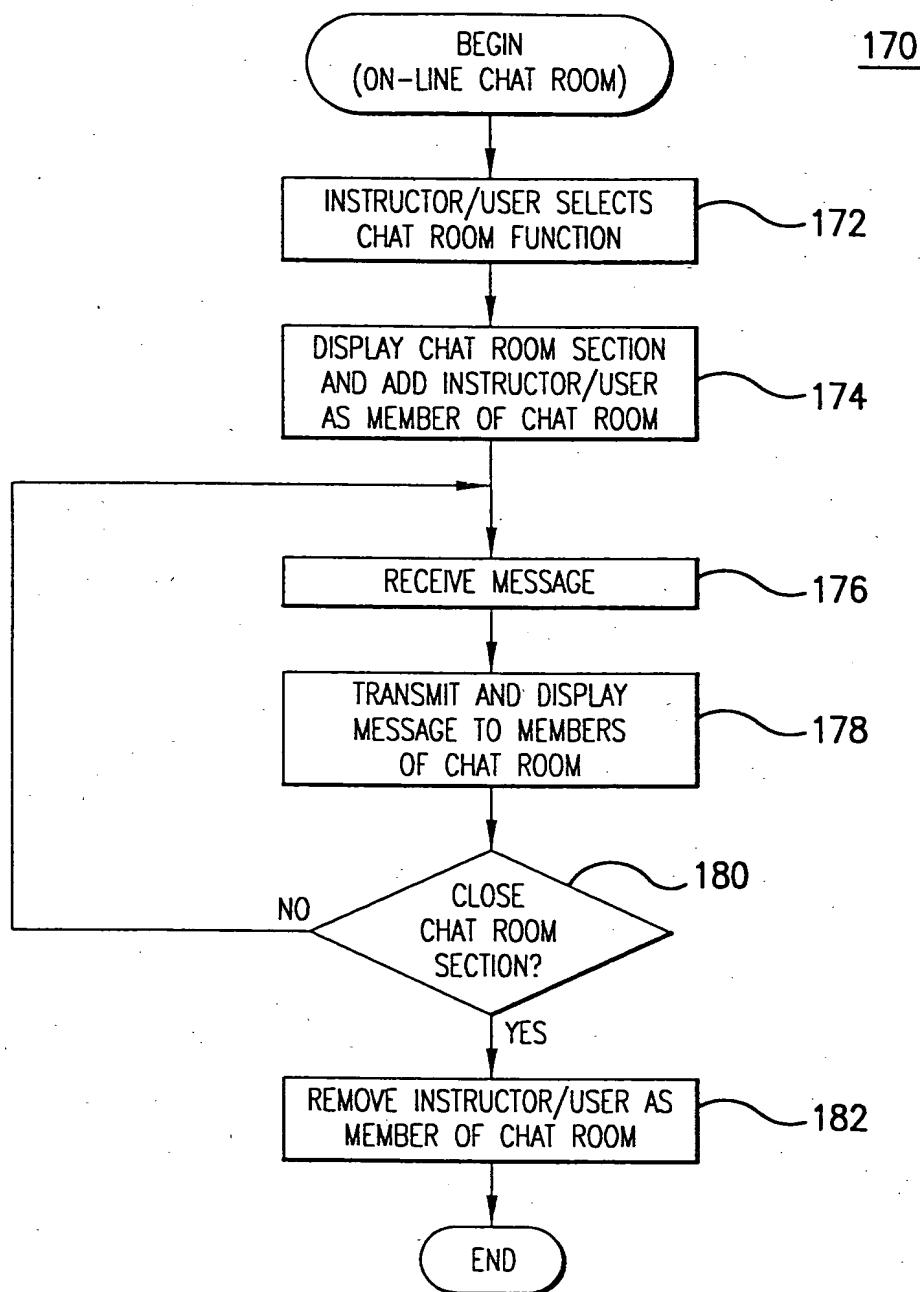
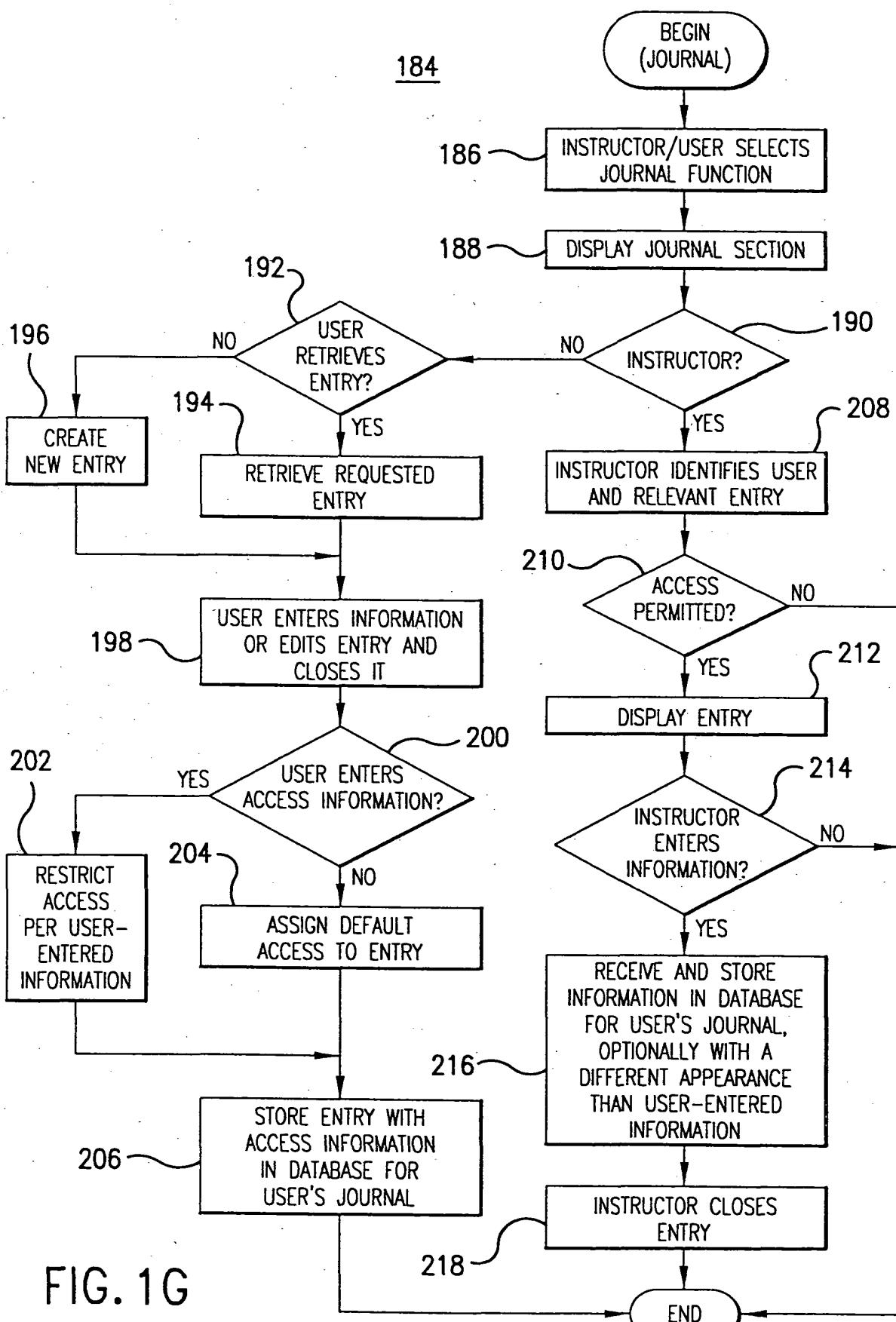


FIG. 1F

**Title: ON-LINE EDUCATIONAL SYSTEM HAVING AN ELECTRONIC NOTEBOOK FEATURE**  
**Inventor(s): Vance Allen et al.**  
**Docket No.: 42892,0117**



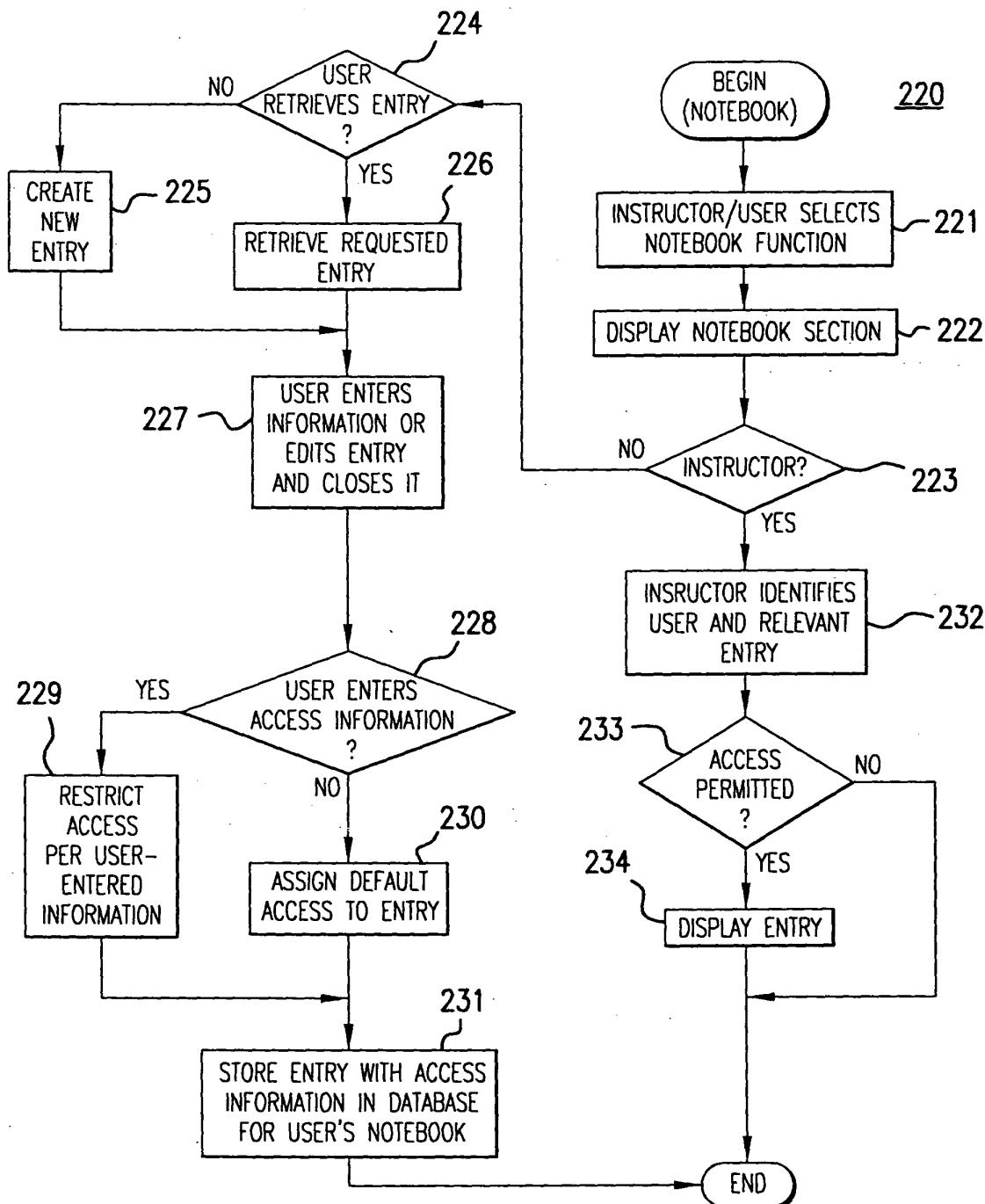


FIG.1H

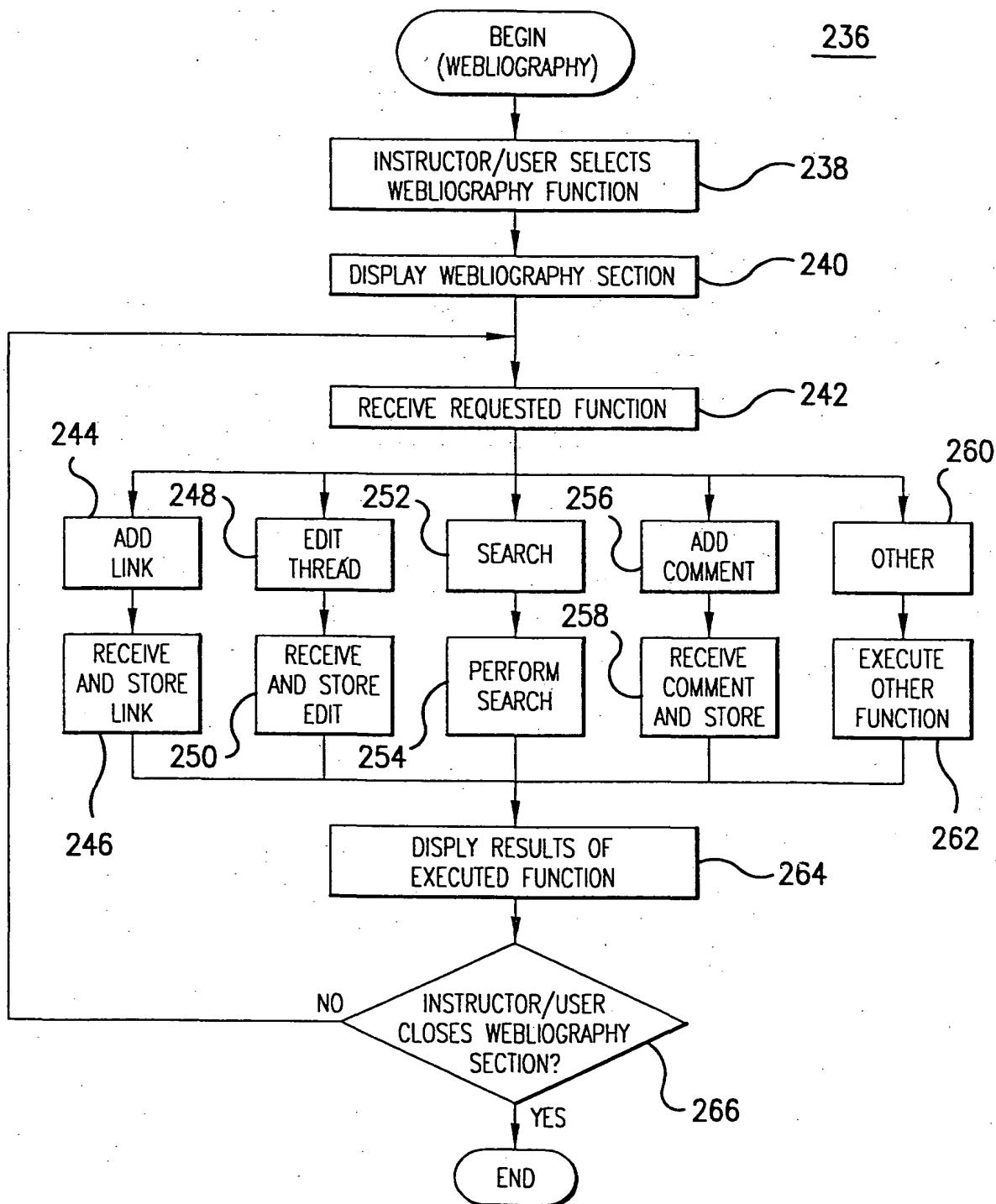


FIG. 11

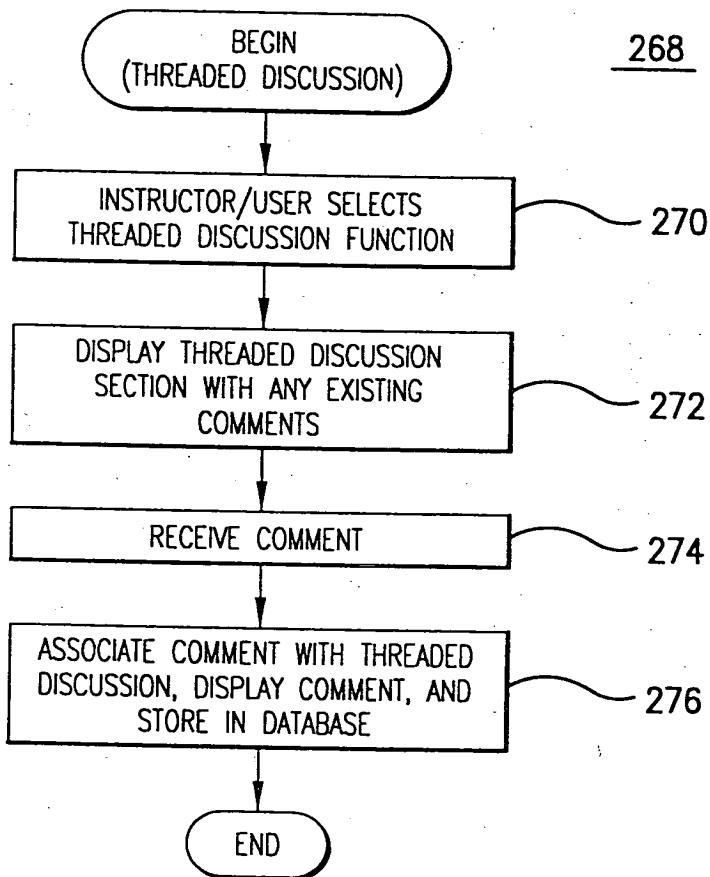
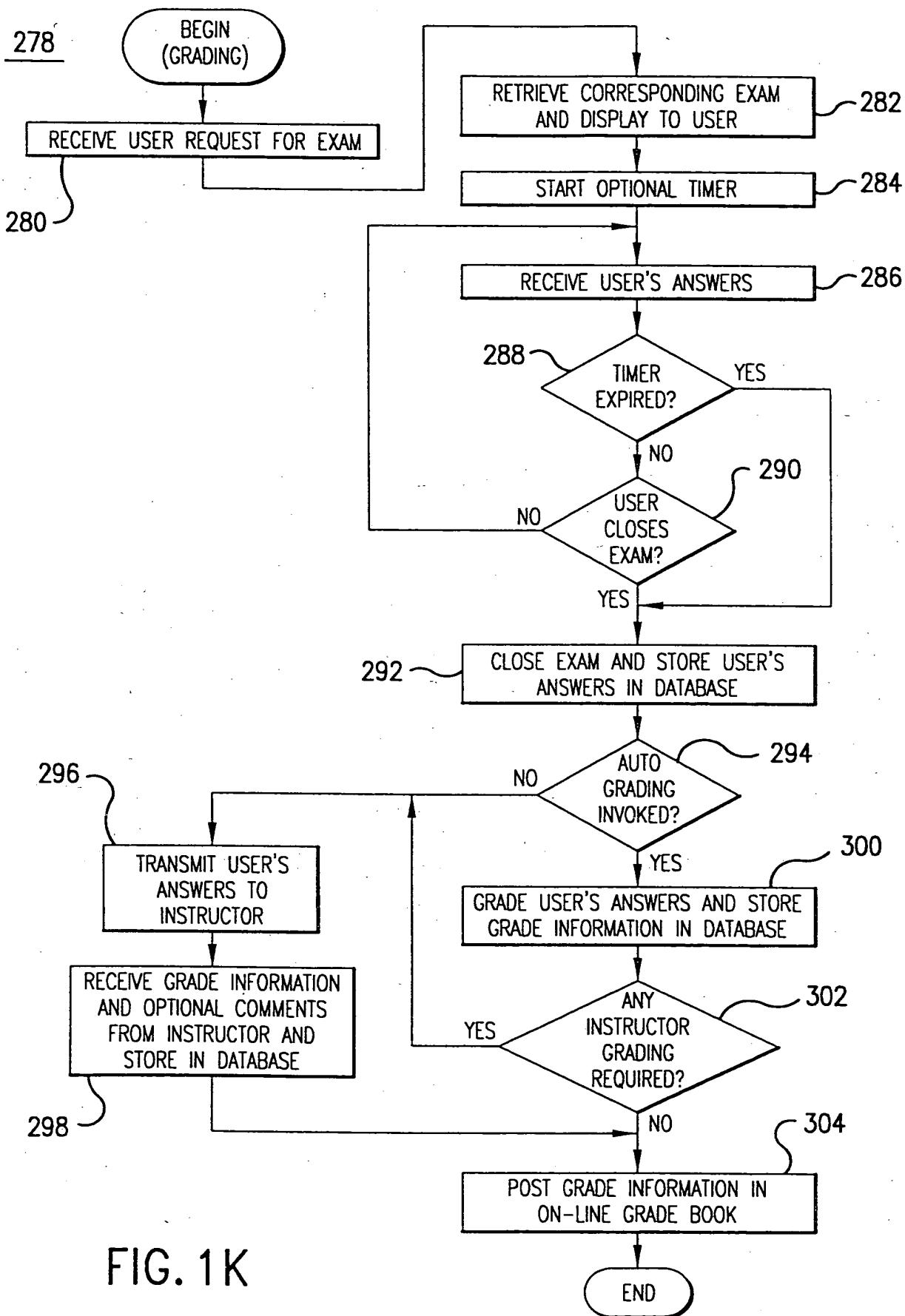


FIG. 1J



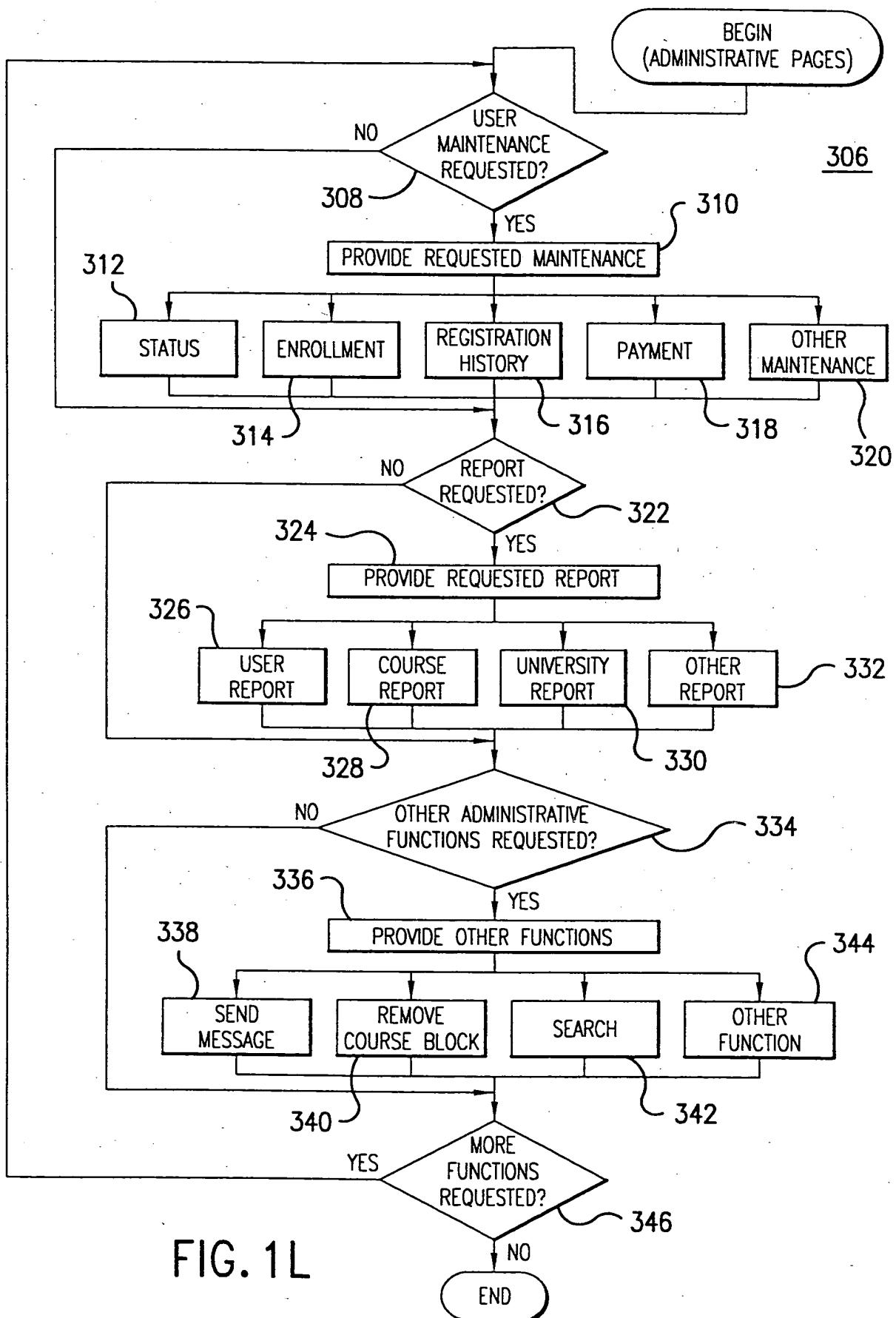


FIG. 1L

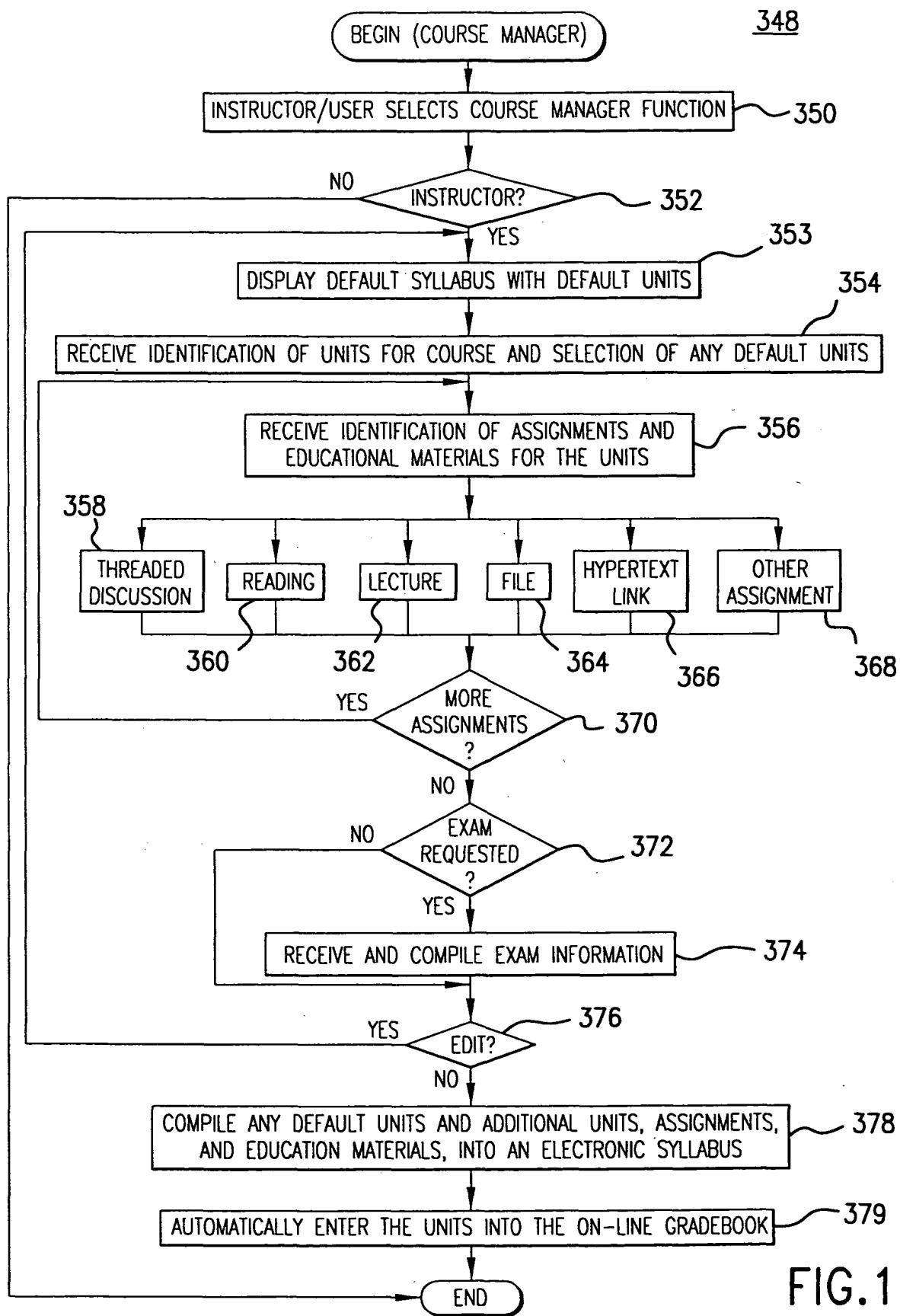


FIG.1M

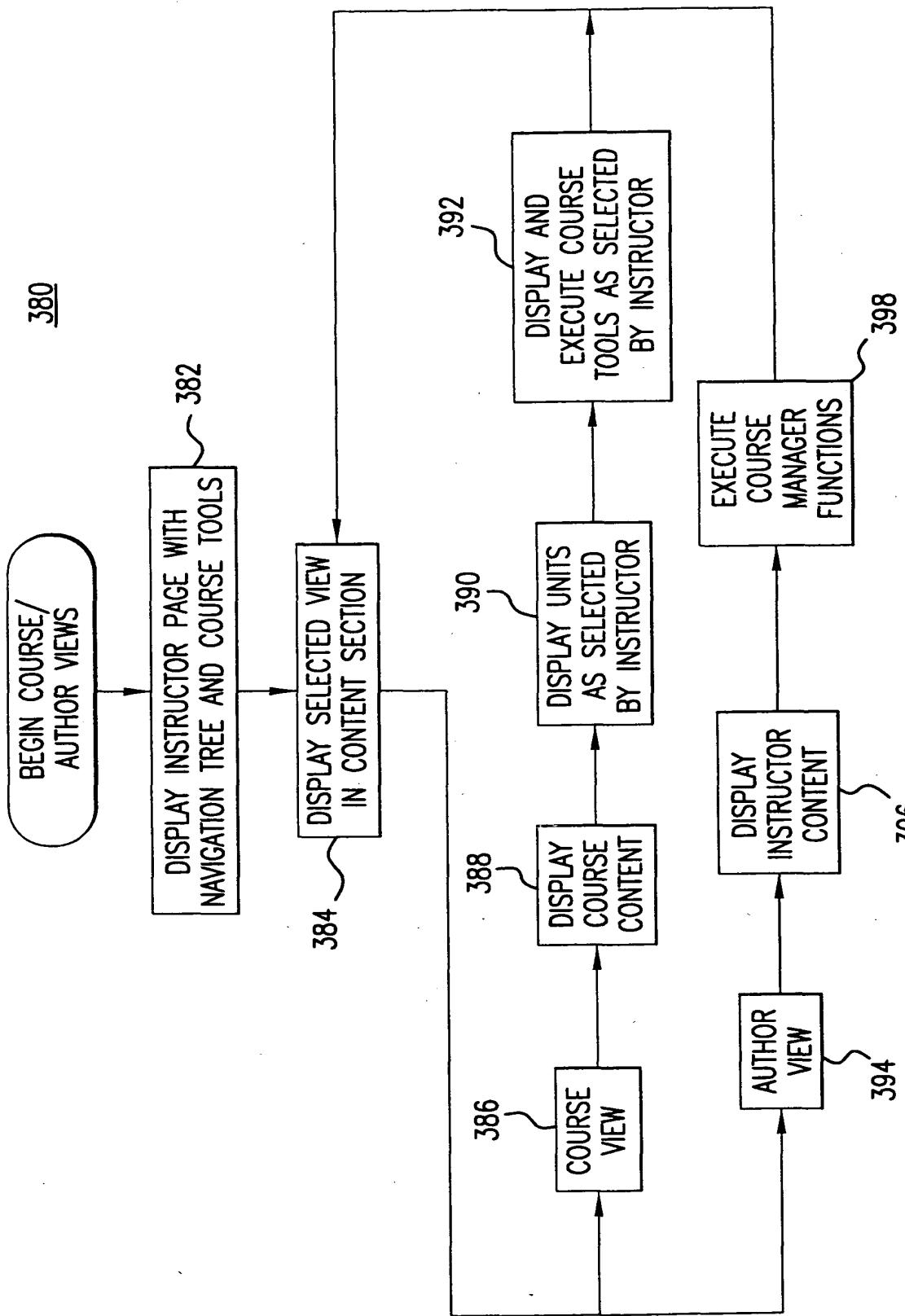


FIG. 1N

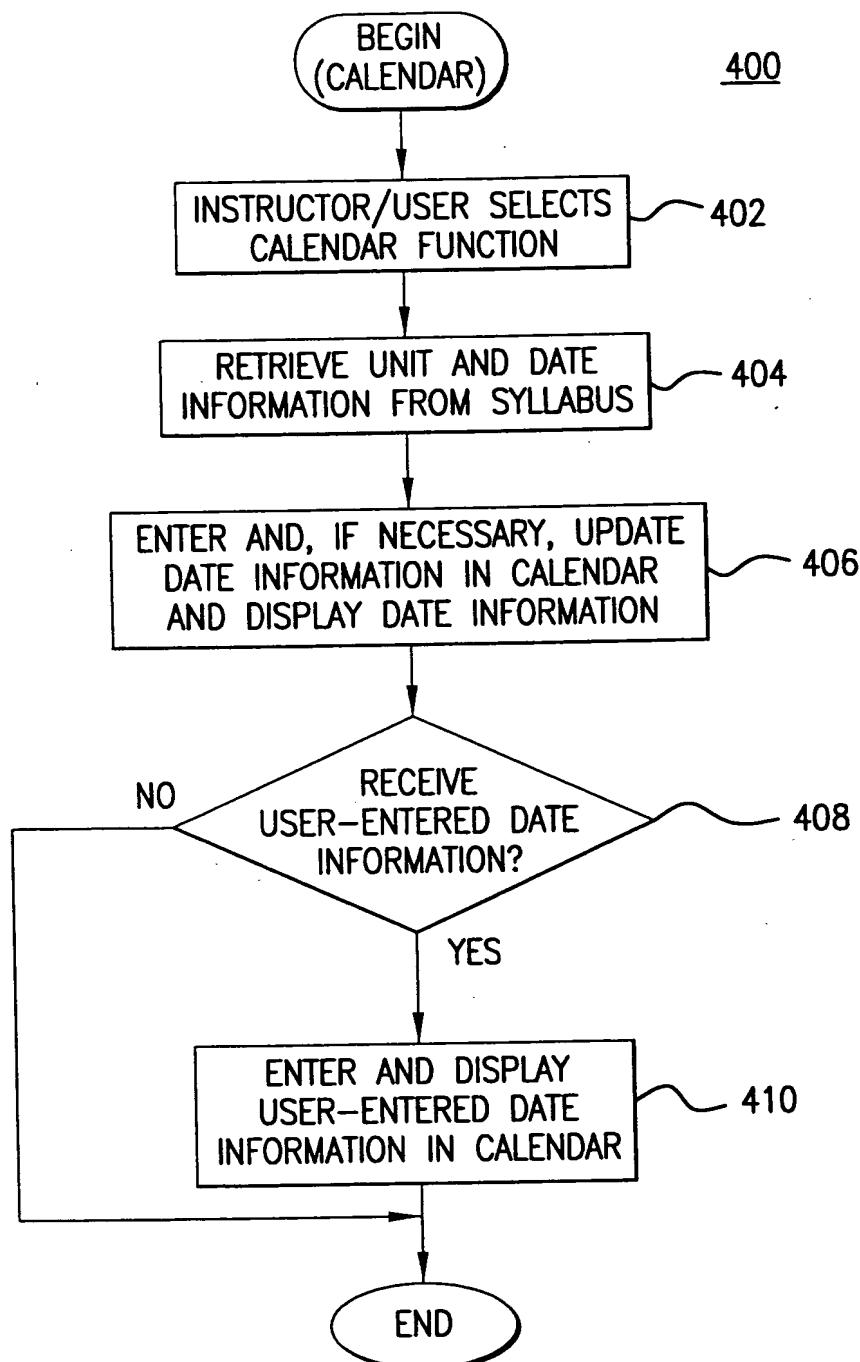


FIG.10

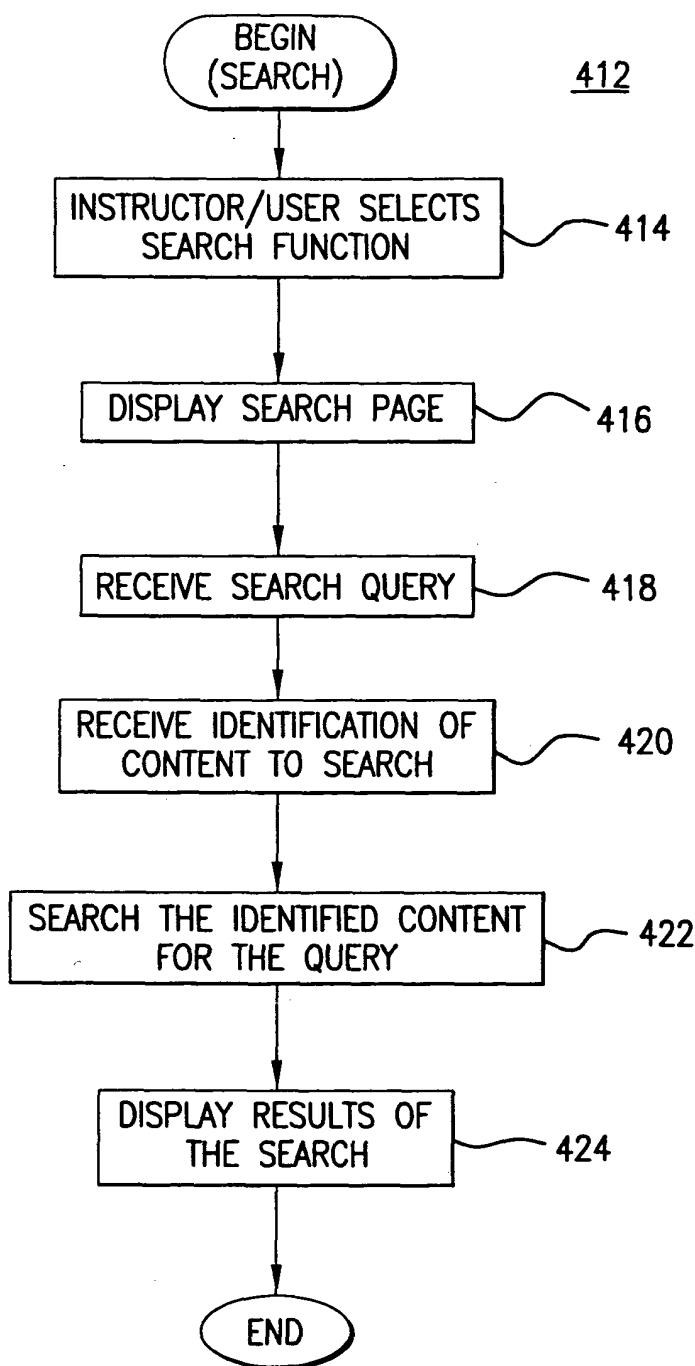


FIG.1P

Title: ON-LINE EDUCATIONAL SYSTEM HAVING AN  
ELECTRONIC NOTEBOOK FEATURE

Inventor(s): Vance Allen et al.

Docket No.: 42892.0117

500

FIG.2A	FIG.2B	FIG.2C	FIG.2D	FIG.2E	FIG.2F	
FIG.2G	FIG.2H	FIG.2I	FIG.2J	FIG.2K	FIG.2L	
FIG.2M	FIG.2N	FIG.2O	FIG.2P	FIG.2Q	FIG.2R	

FIG.2

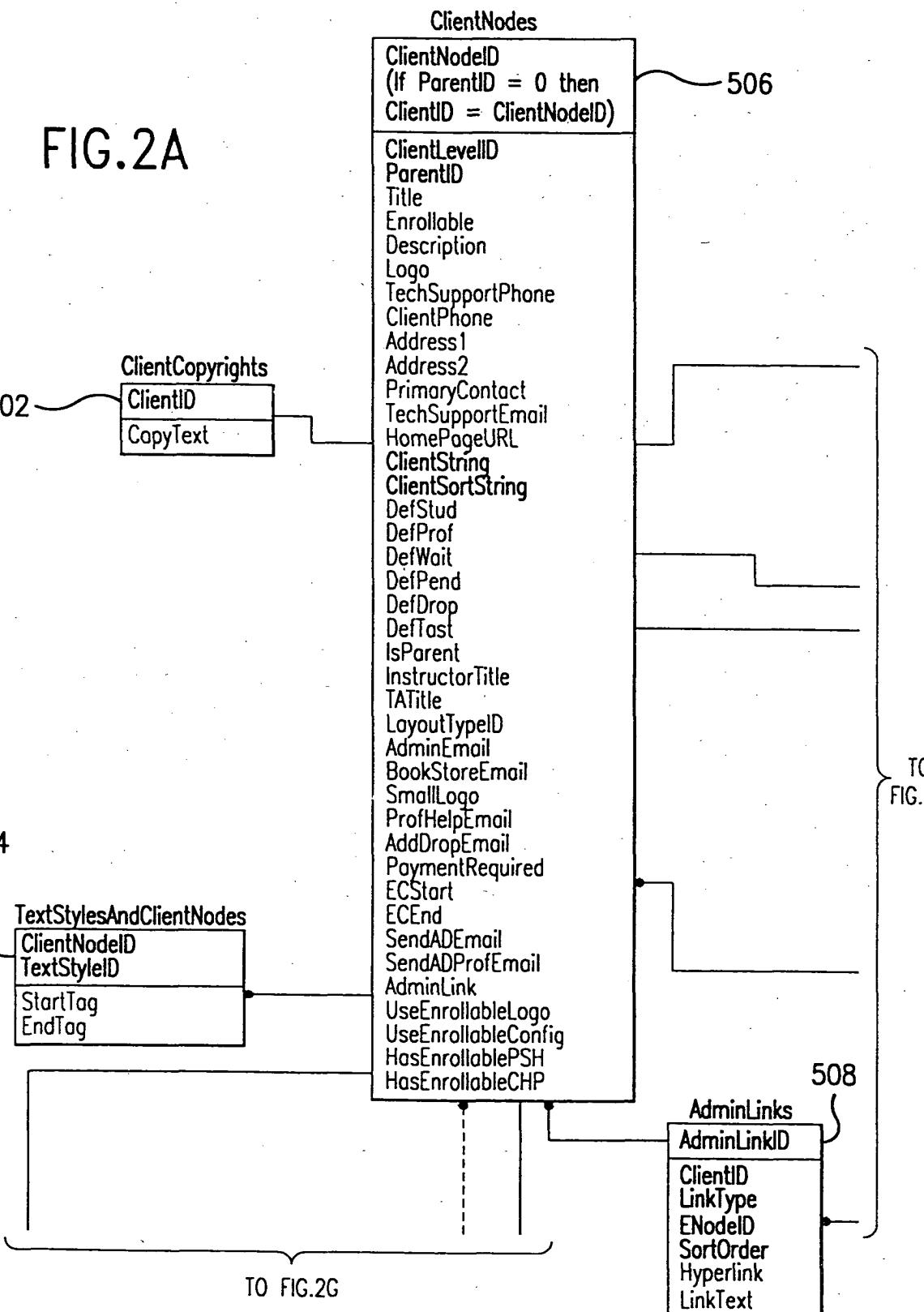
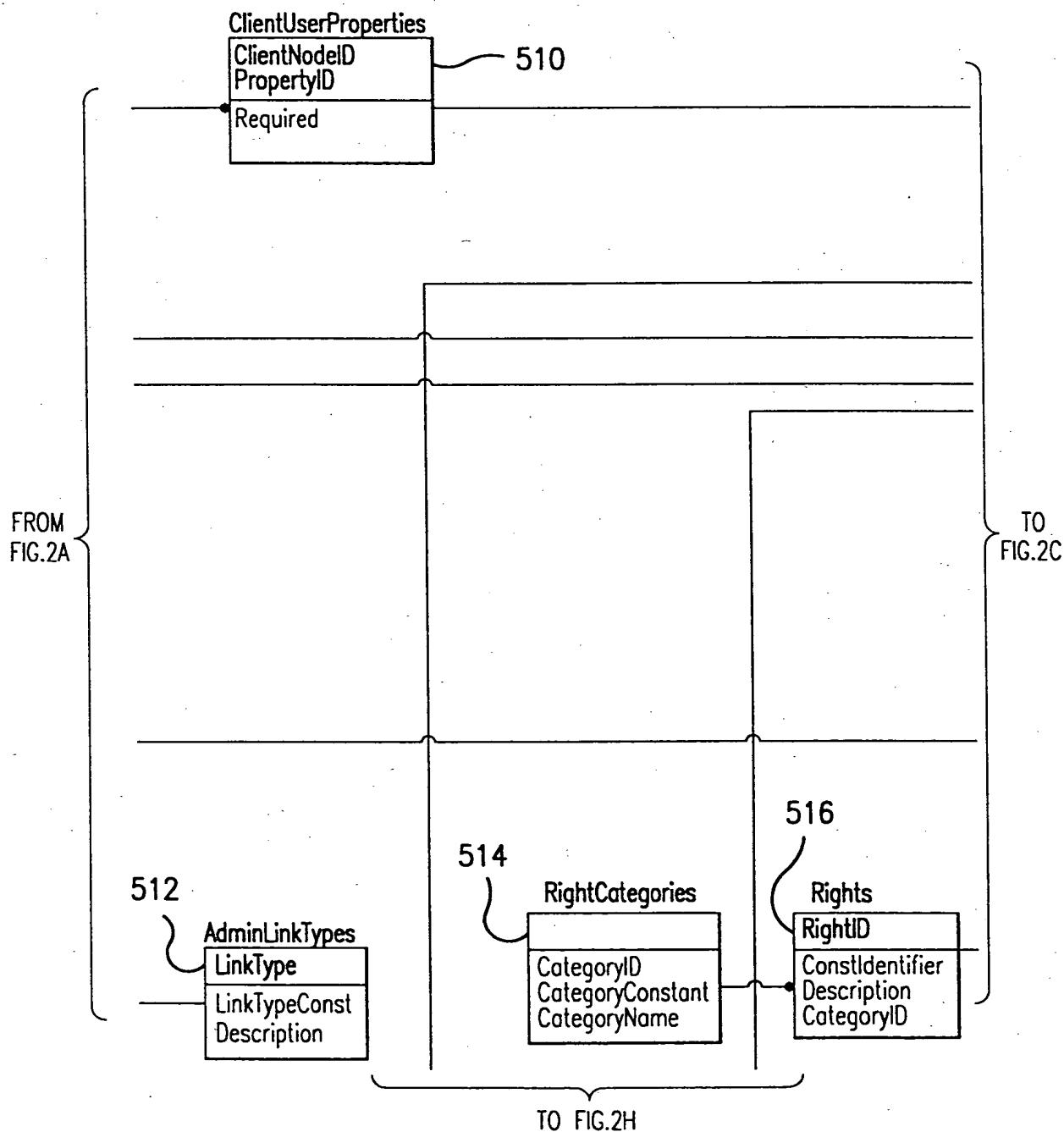
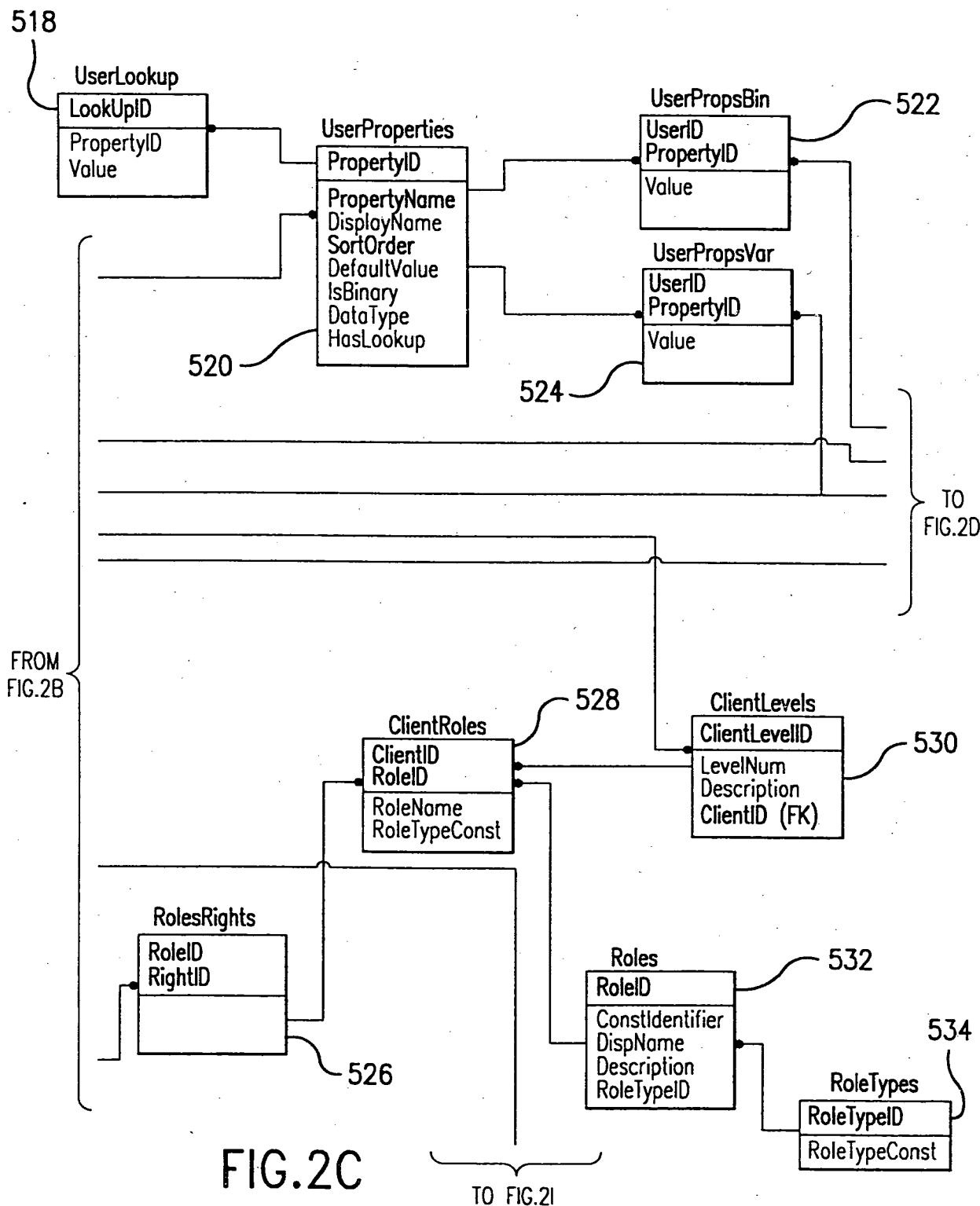
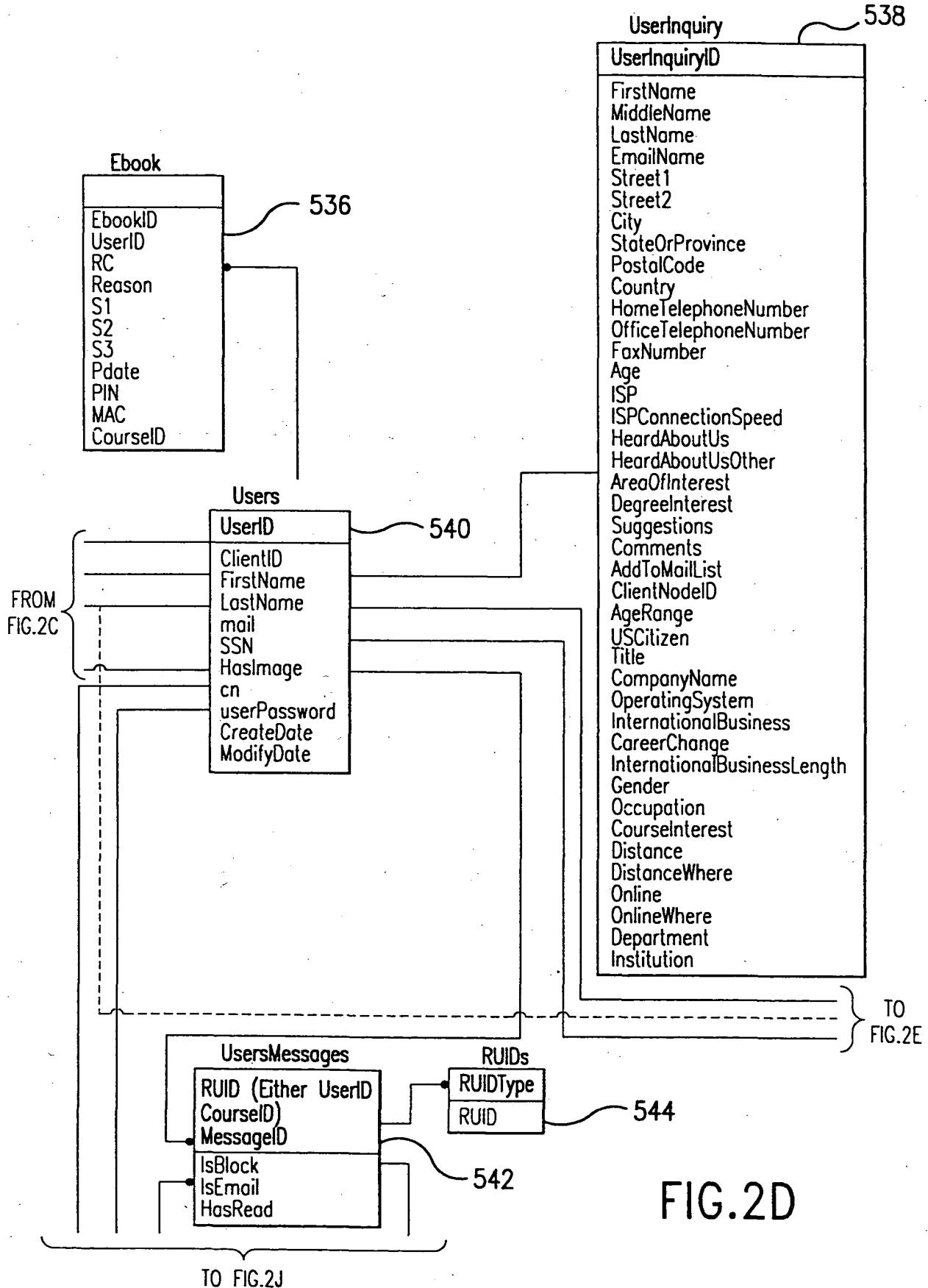
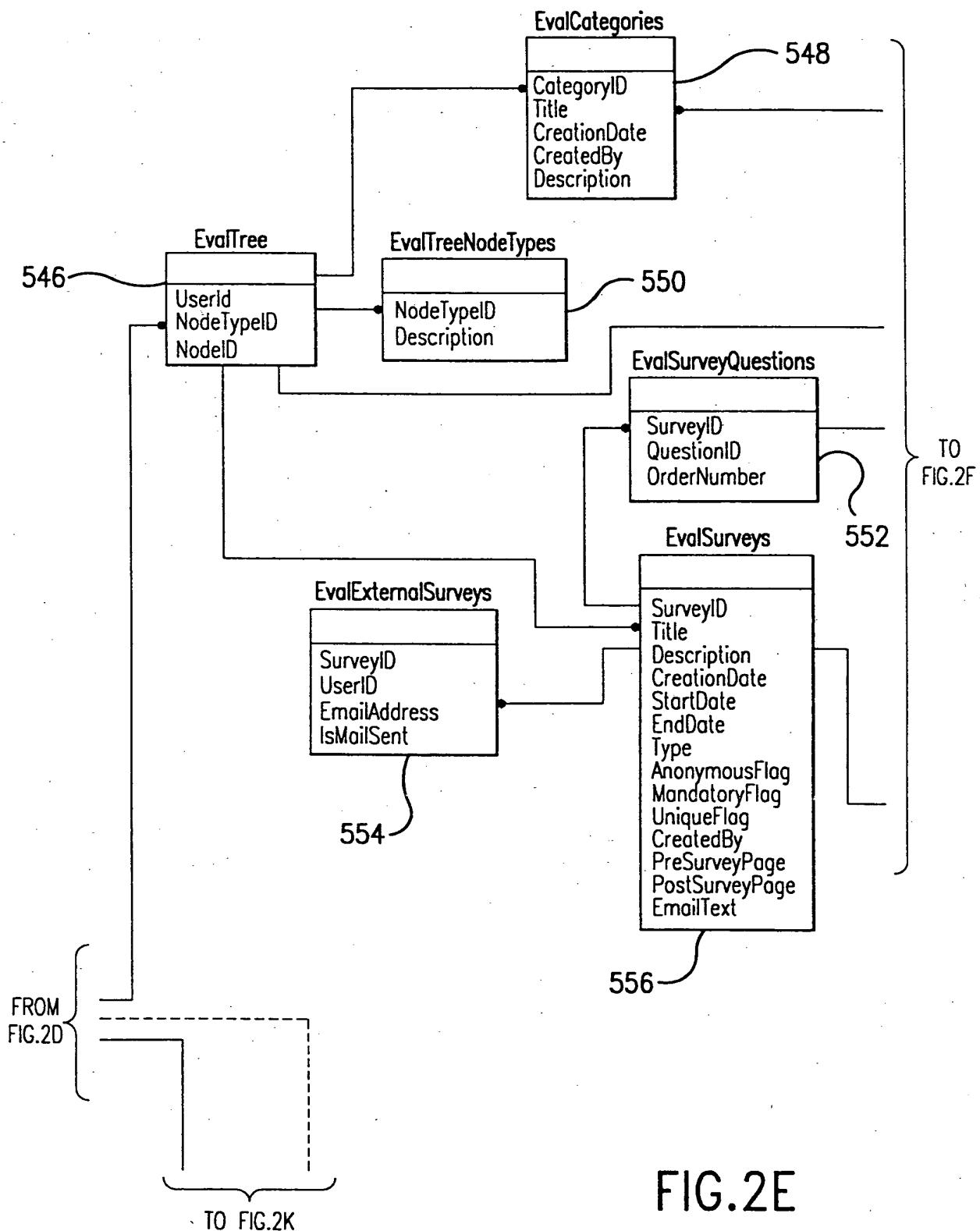


FIG.2B









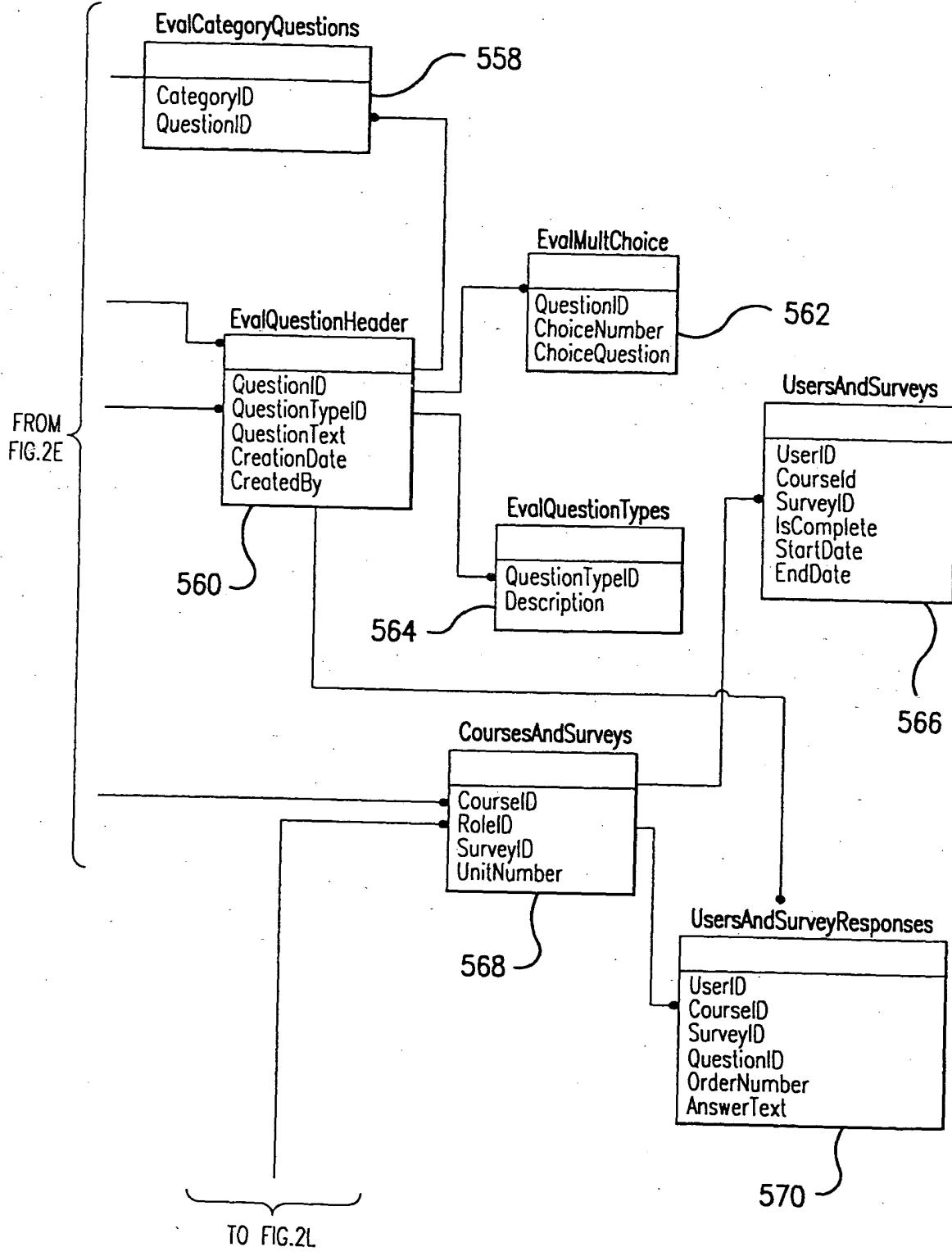
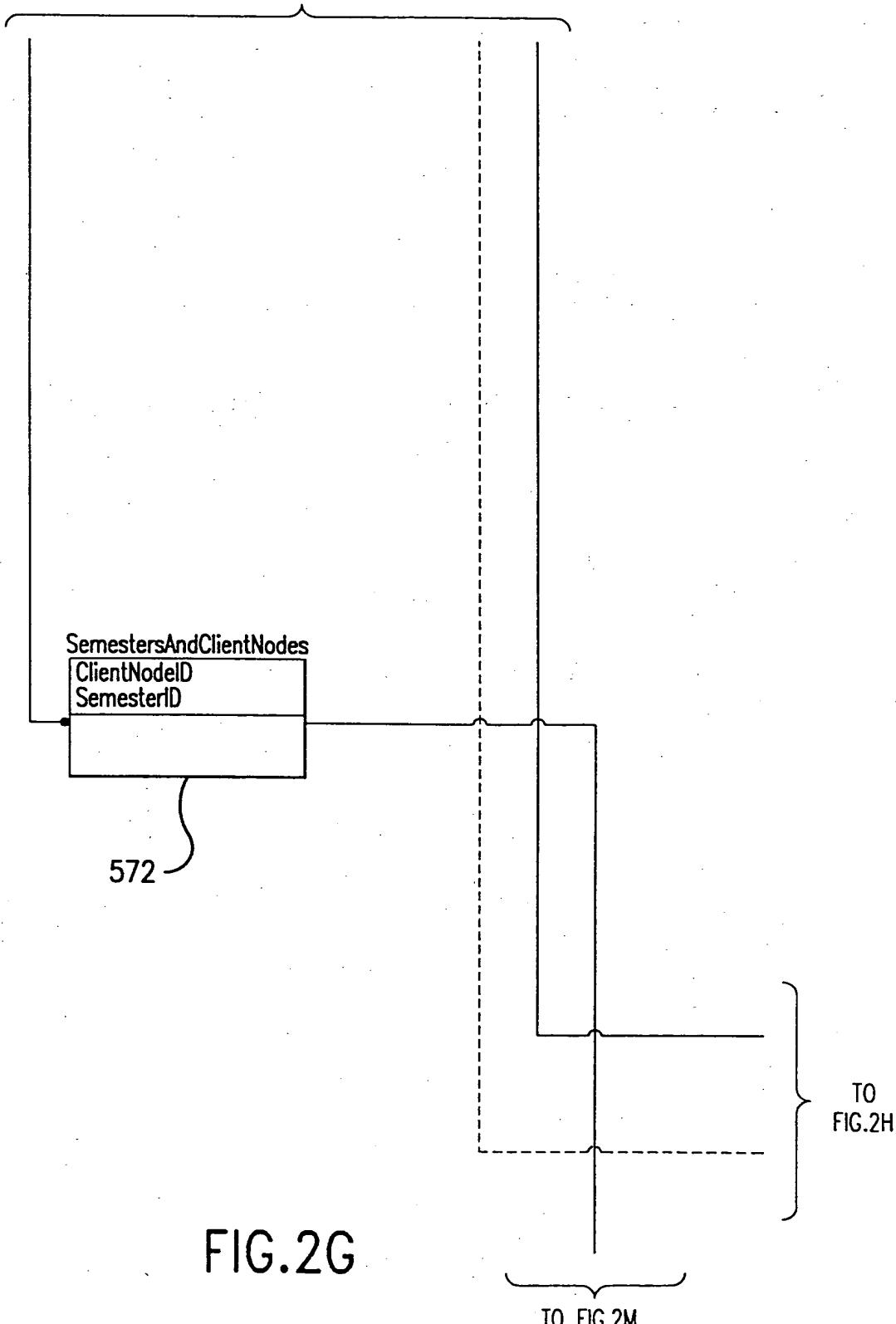
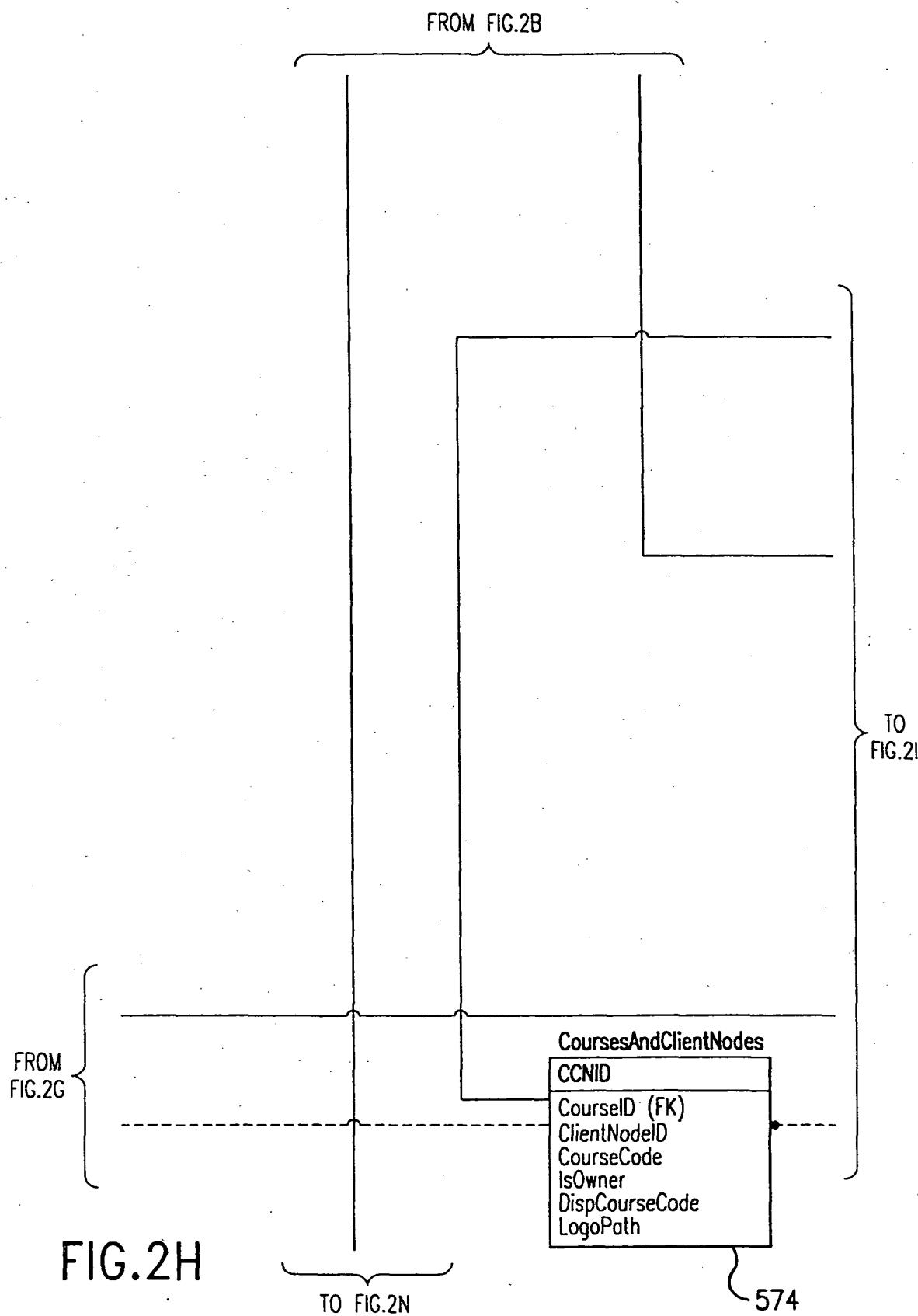
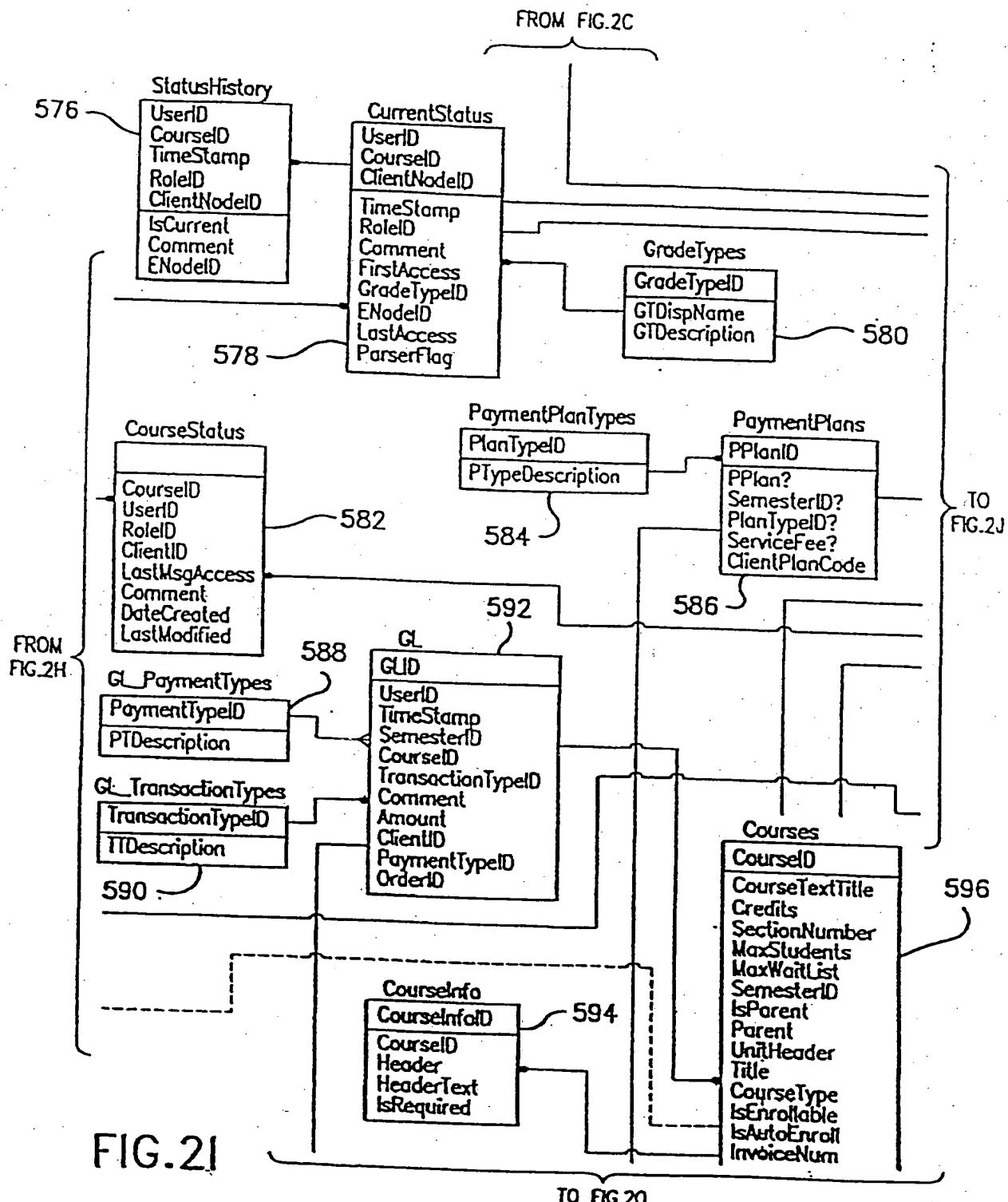


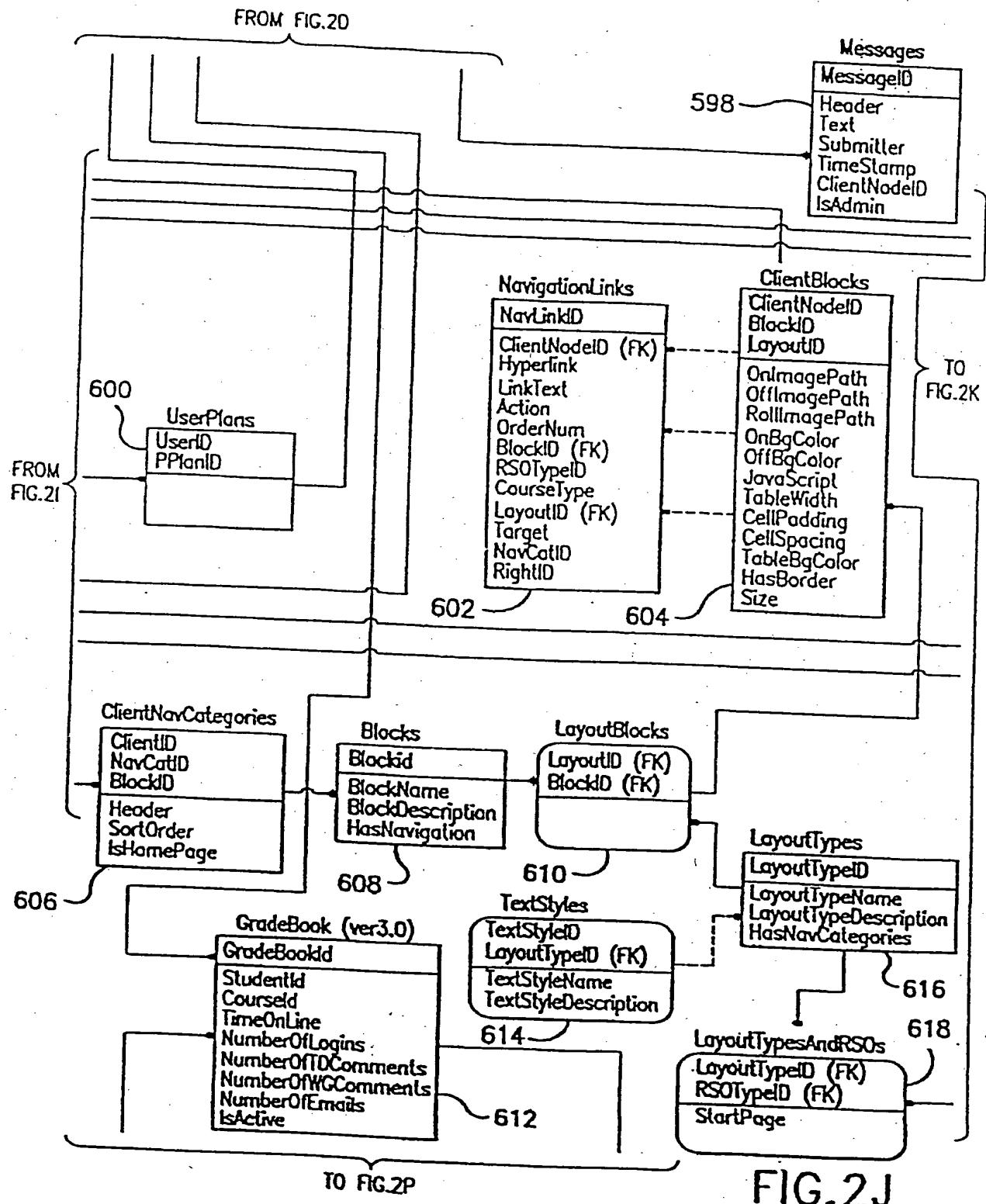
FIG.2F

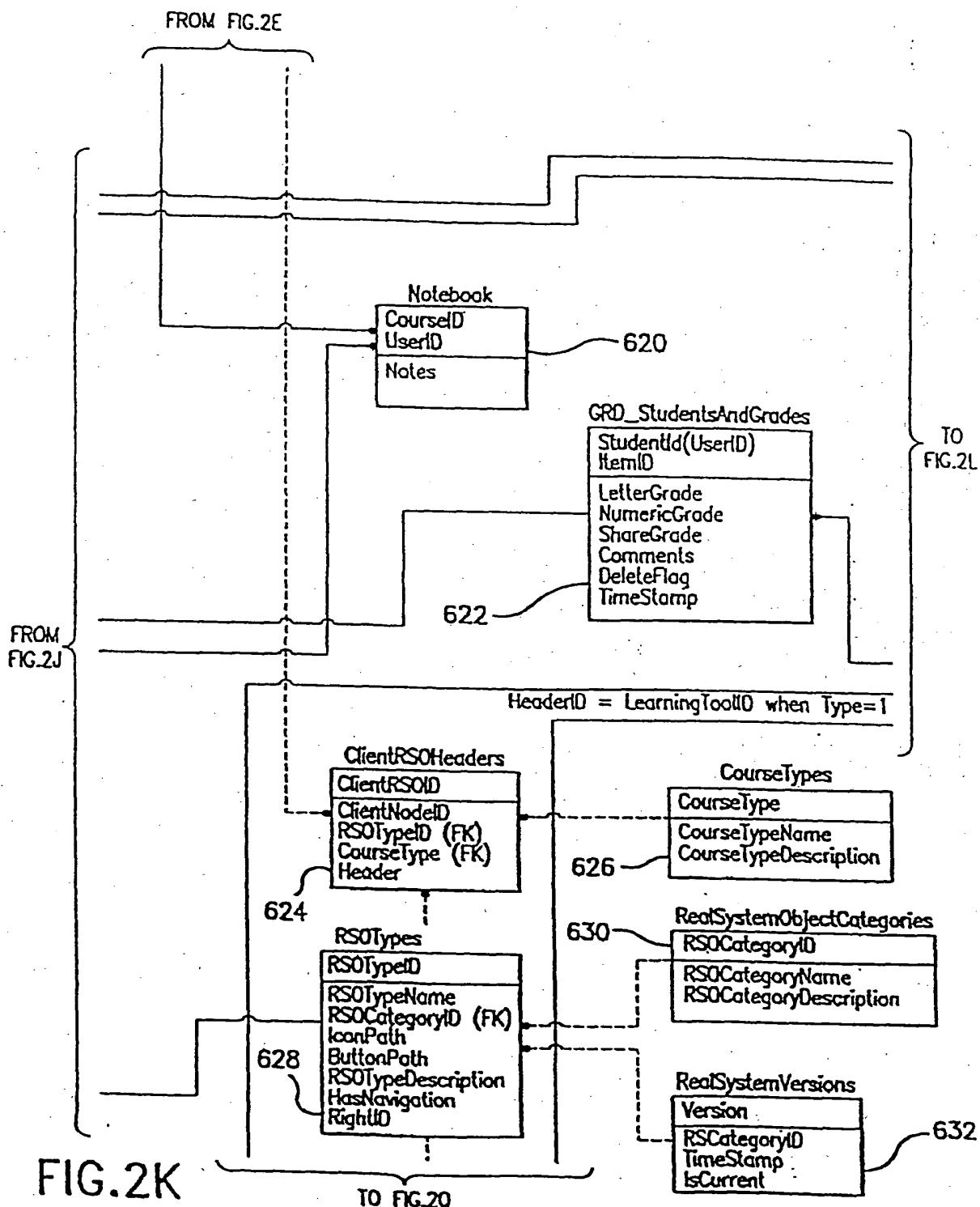
FROM FIG.2A

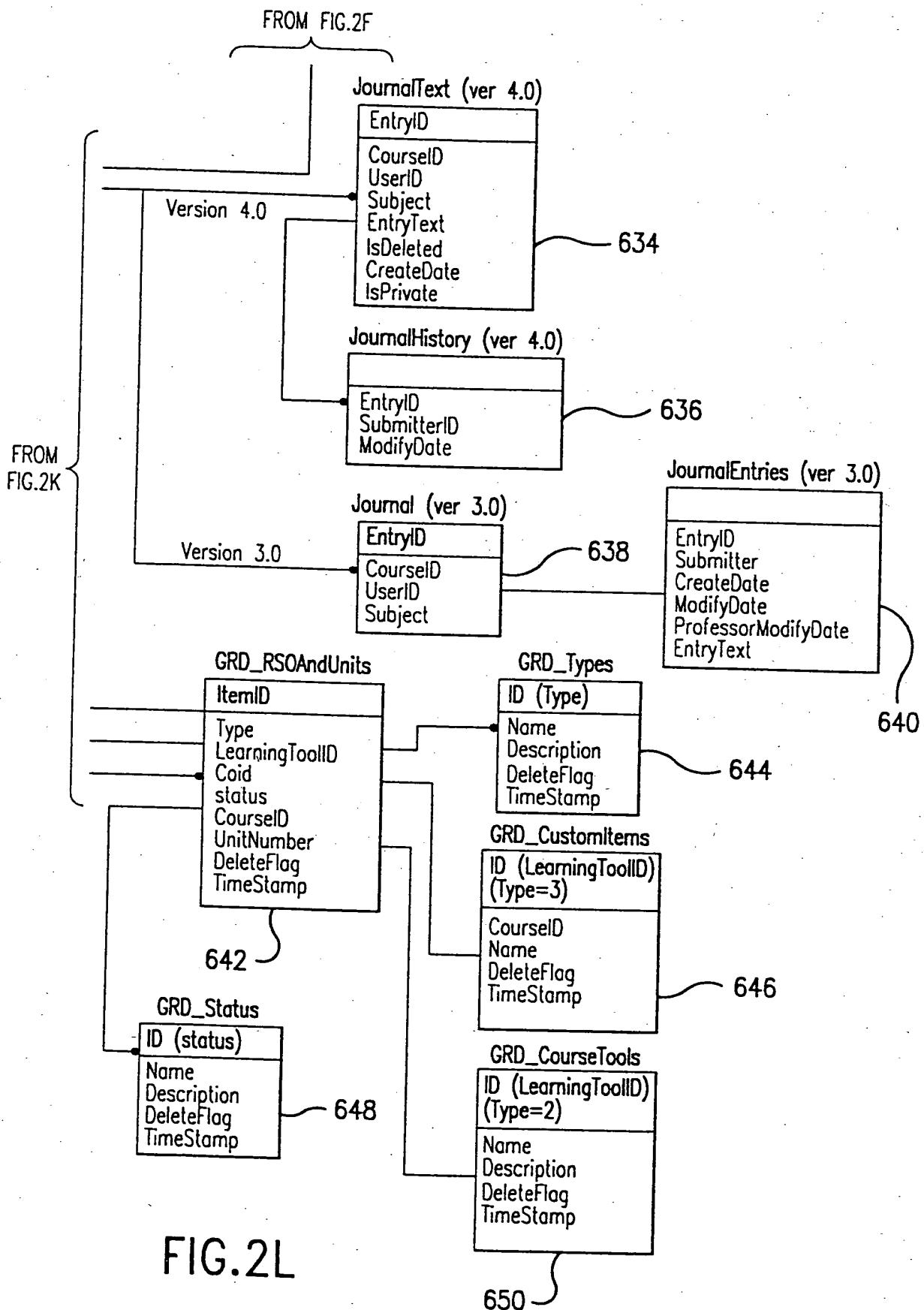












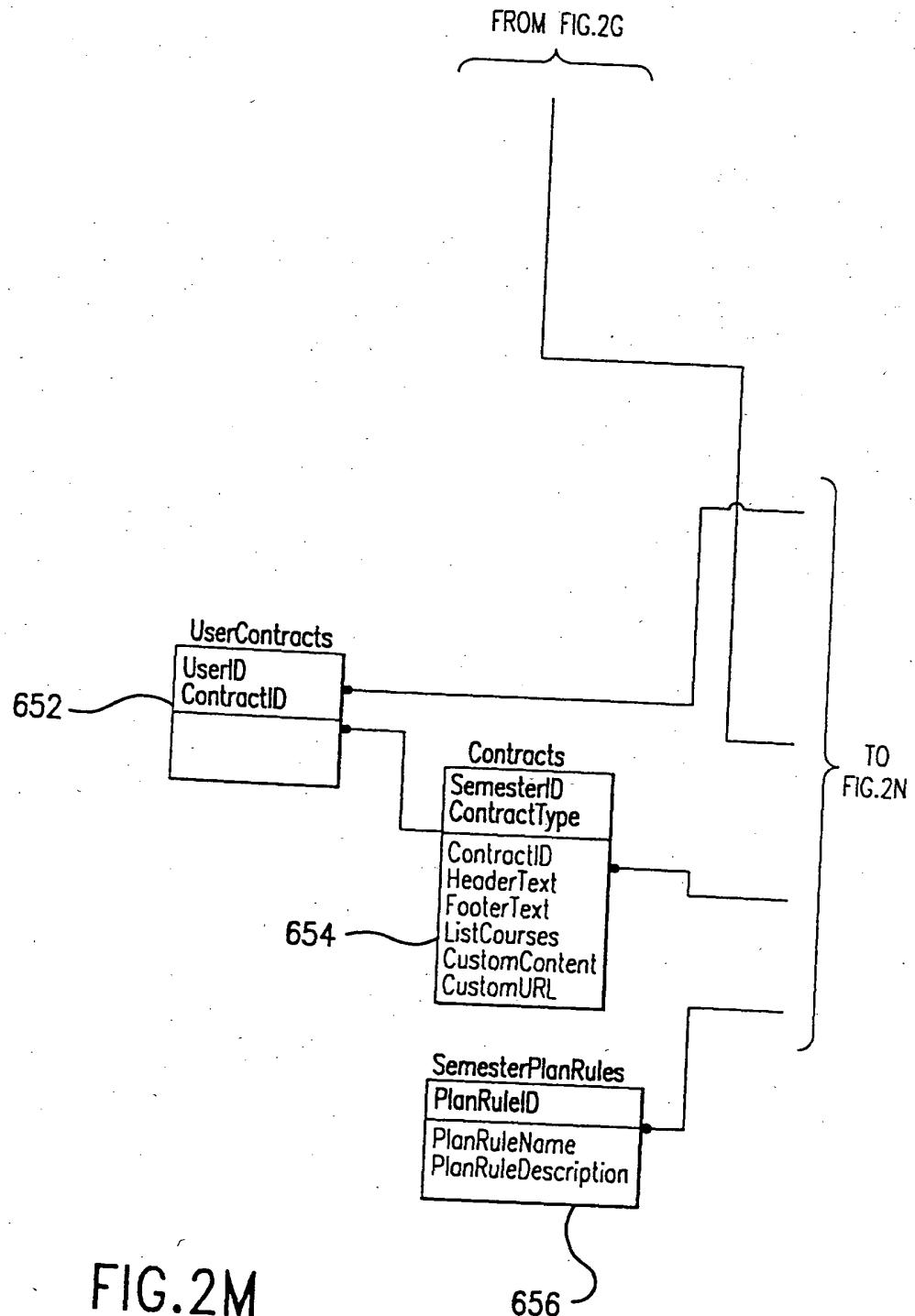
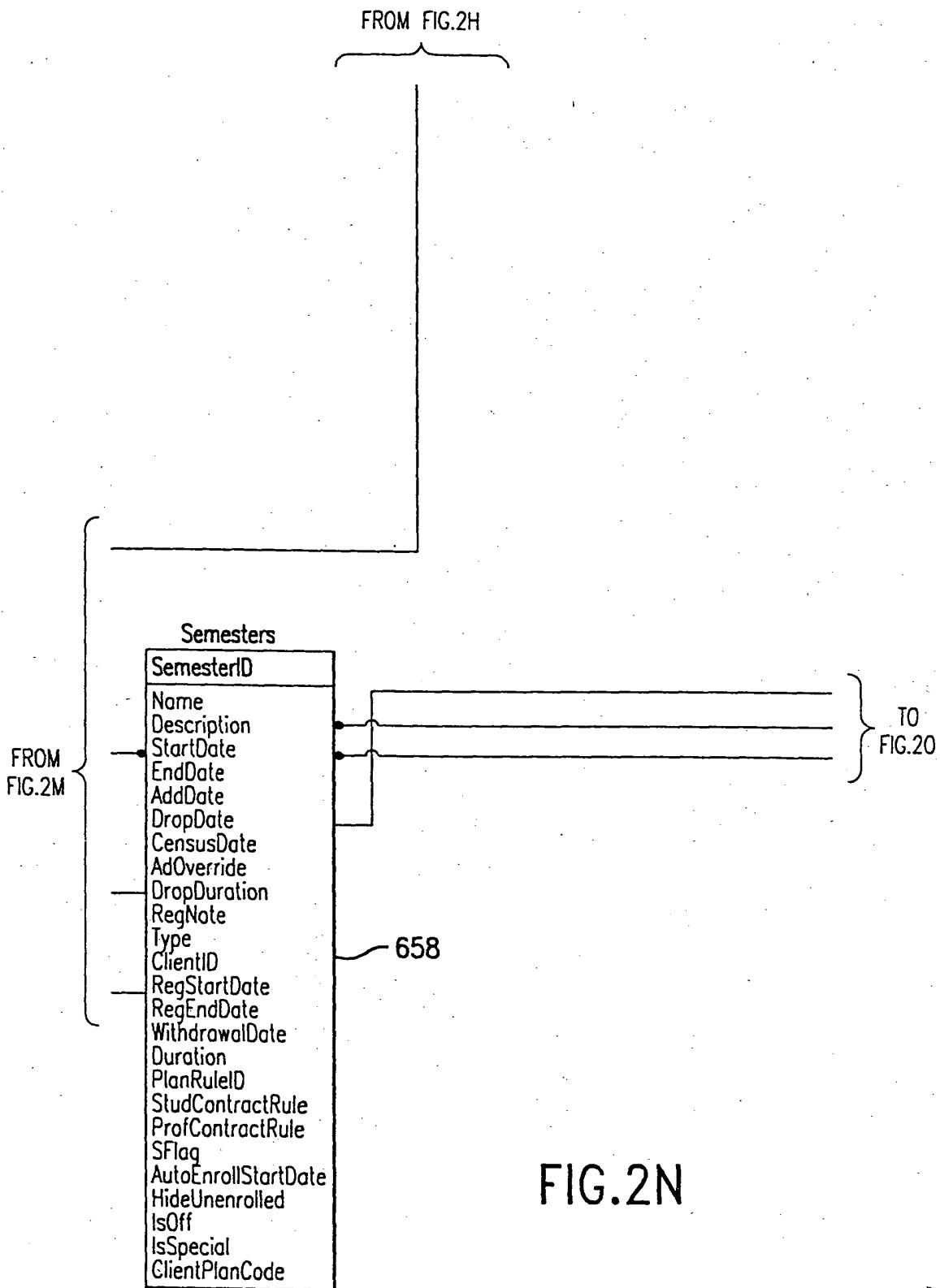


FIG.2M



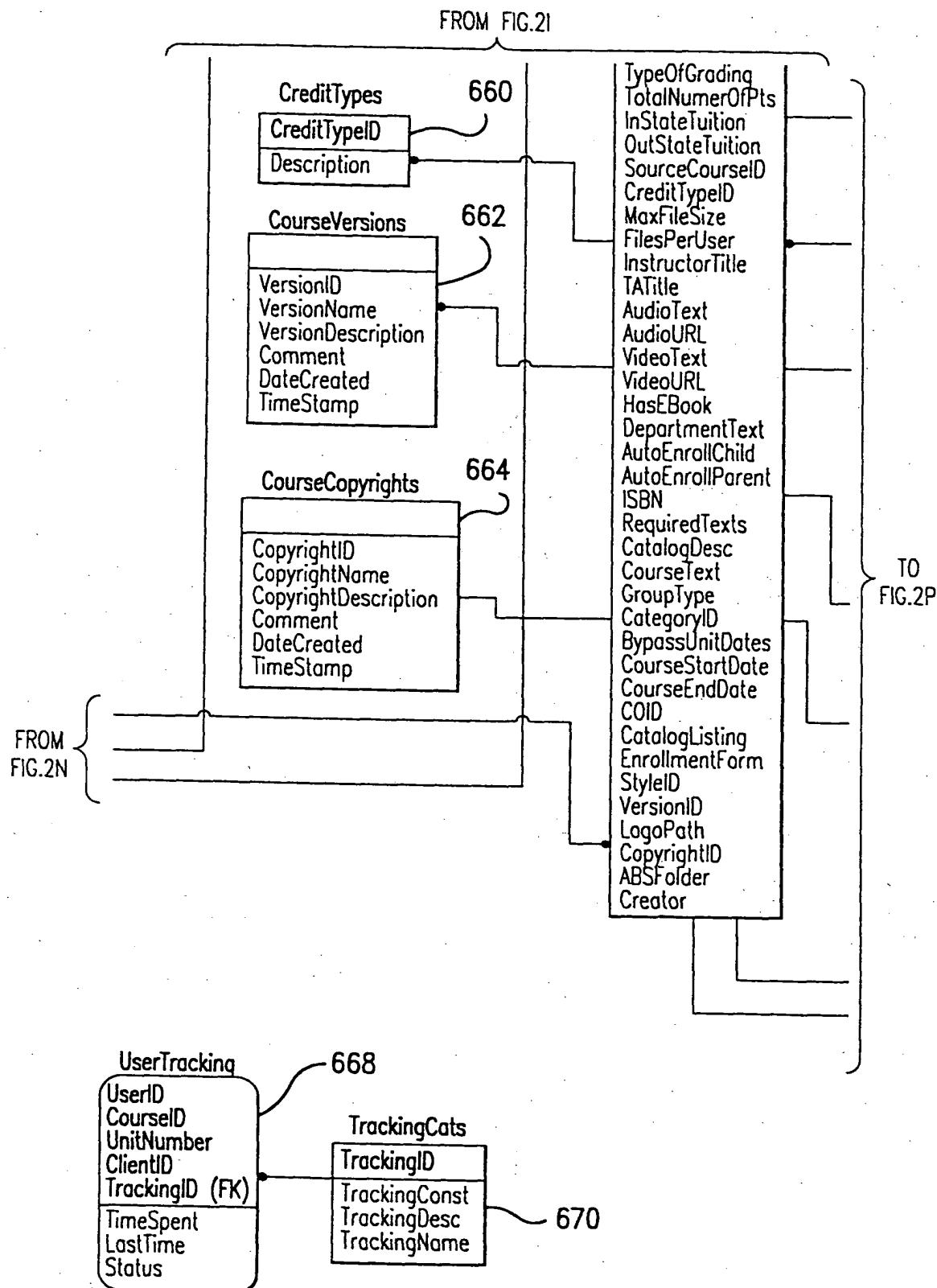
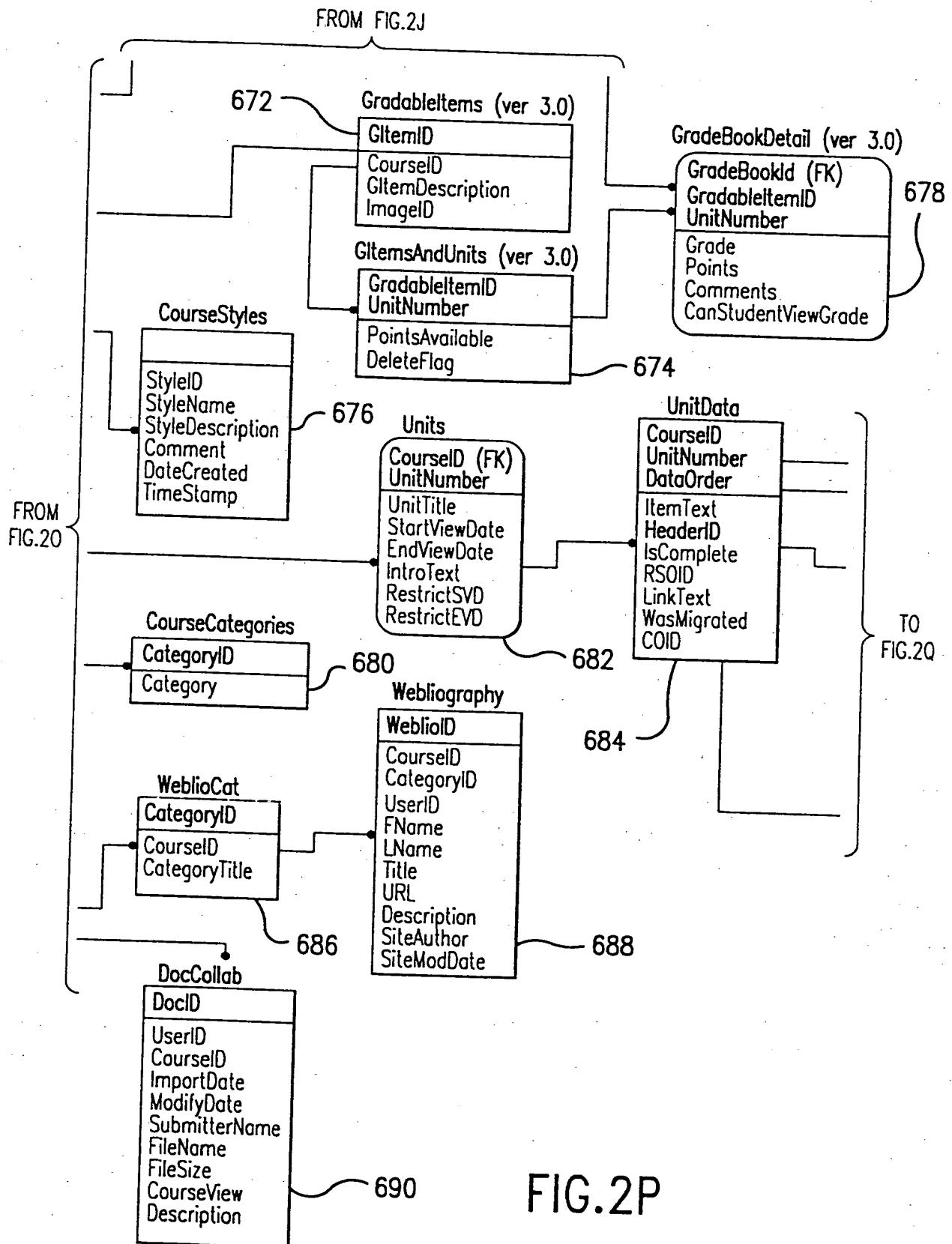


FIG.20



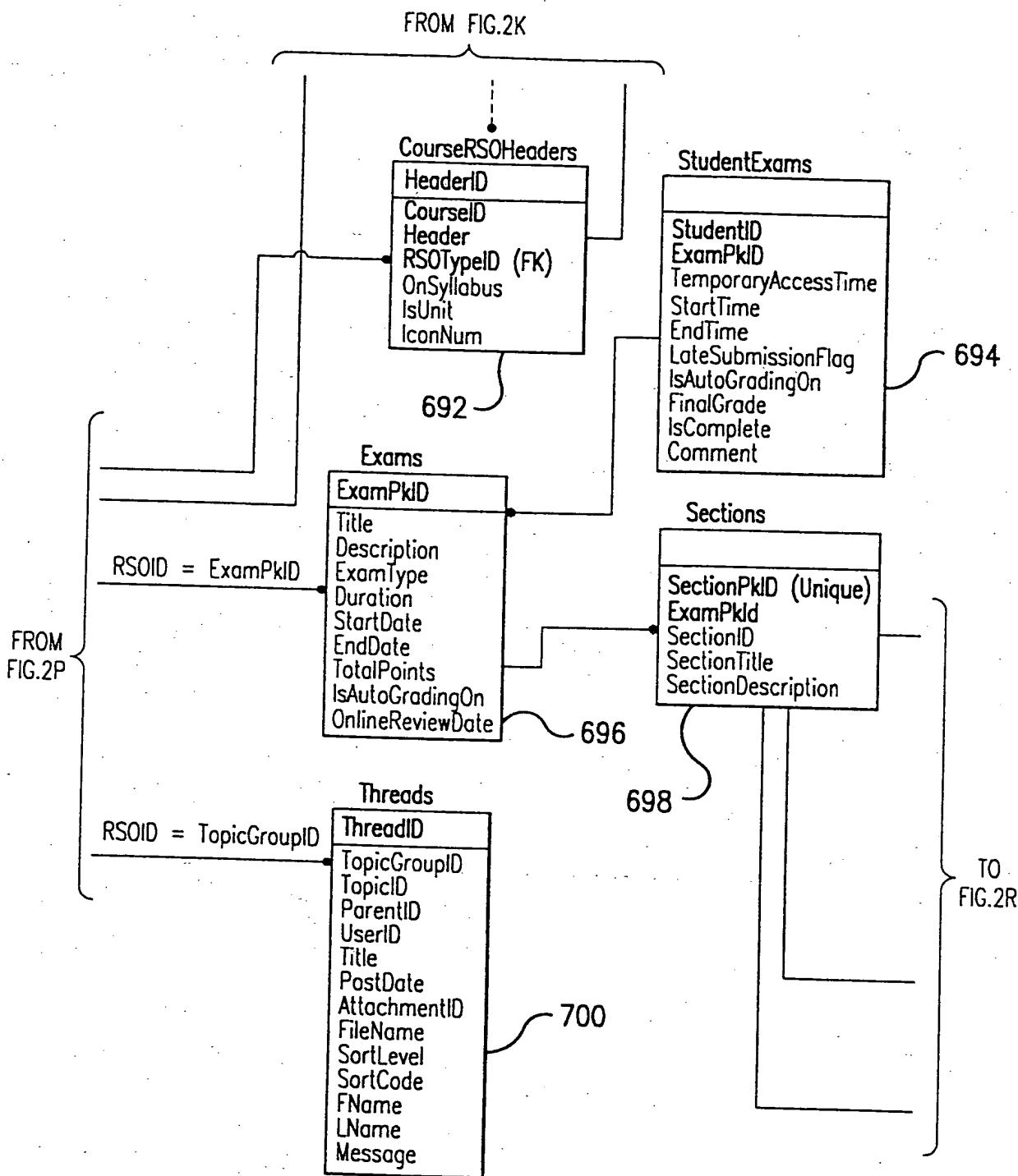


FIG.2Q

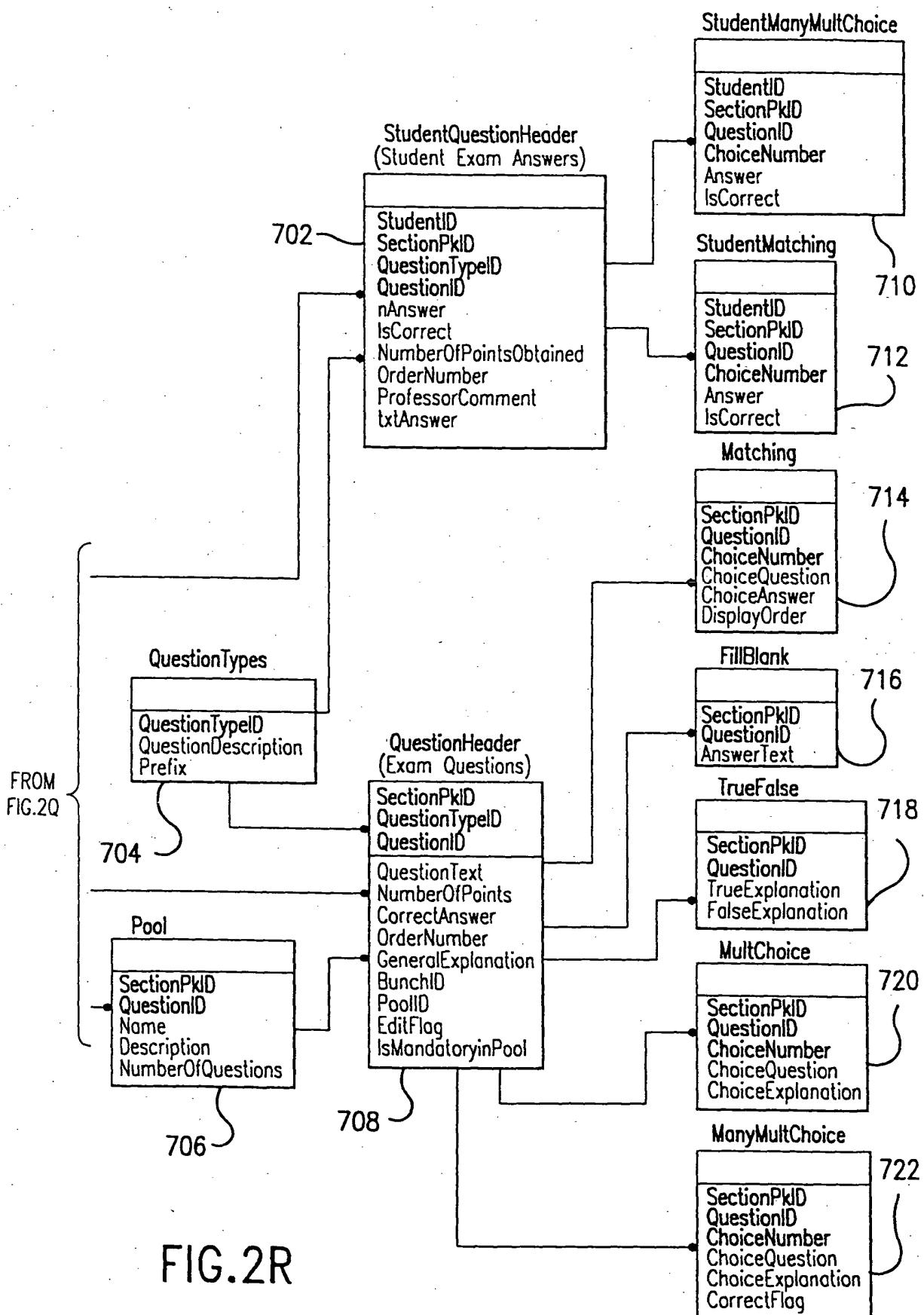
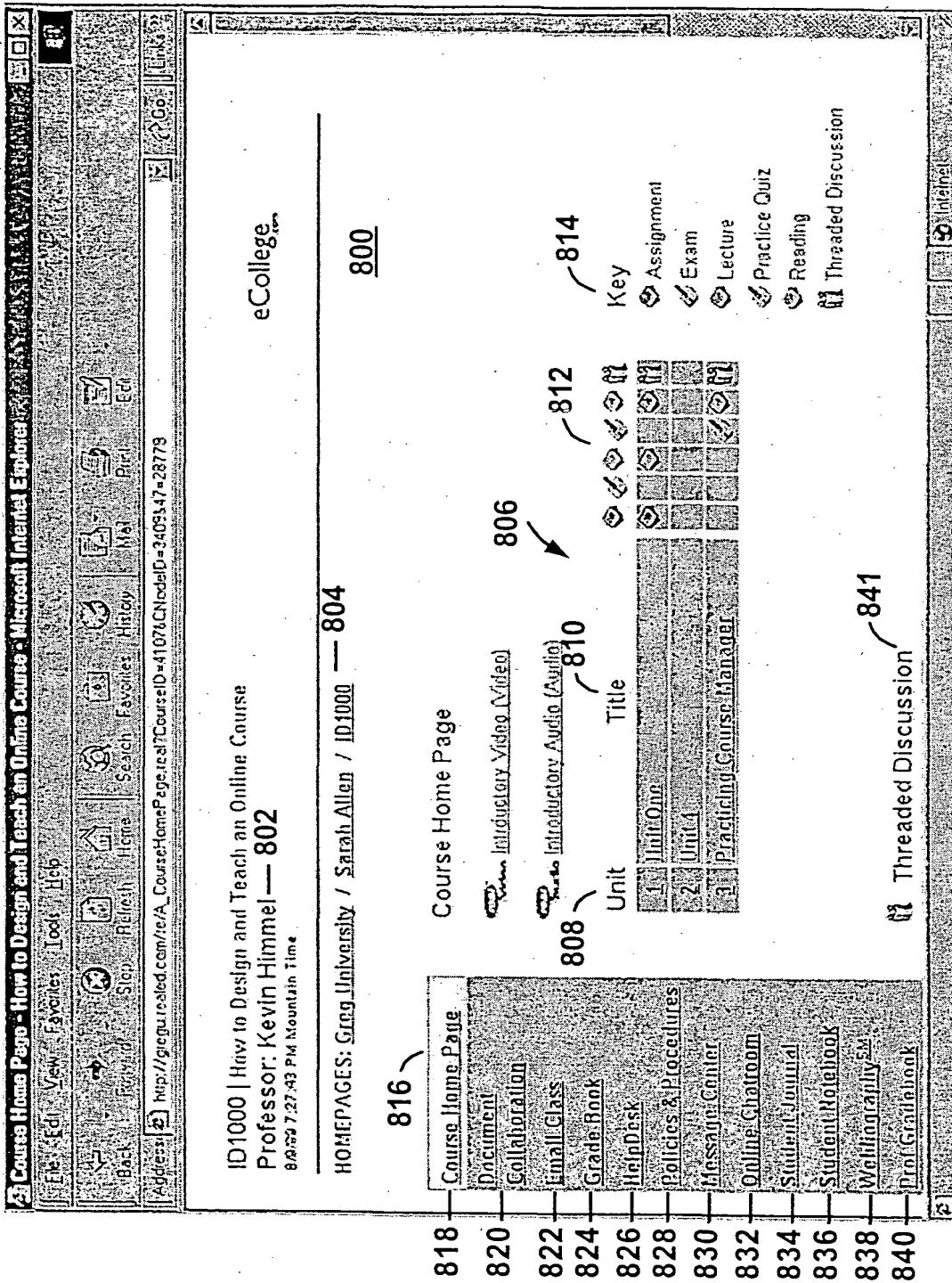


FIG.2R



**Fig 3A**

Fig 3B

**816**

Document Collaboration

Collaboration

Download file

PC users - Hold your mouse over the document name, click your right mouse button and scroll to 'Save Target As...' (IE) or 'Save Link As...' (Netscape) on the menu that appears.  
 Mac users - Click and hold on the document name until a menu window appears.  
 Choose the option that allows you to save the document on your computer.

Kevin Himmel HS SP

**852** **854** **856** **858** **860**

File Name Description Owner Date Size

Charlotte G. Hall	Please read this during Week 4	Sarah	8/9/99	50K
		Allen	7/35/99 1:11pm	

SHARE SELECTED FILE(S) (ADMIN ONLY)

DELETE SELECTED FILE(S) (ADMIN ONLY)

**850**

ADMIN ONLY

LINKS

Course Manager

Profile

Upload File To

**862** **863** **866** **868**

File Name

Description (required) — 864

Owner  Date

Sarah	8/9/99
Allen	7/35/99 1:11pm

Upload File

**870**

**Fig 3C**

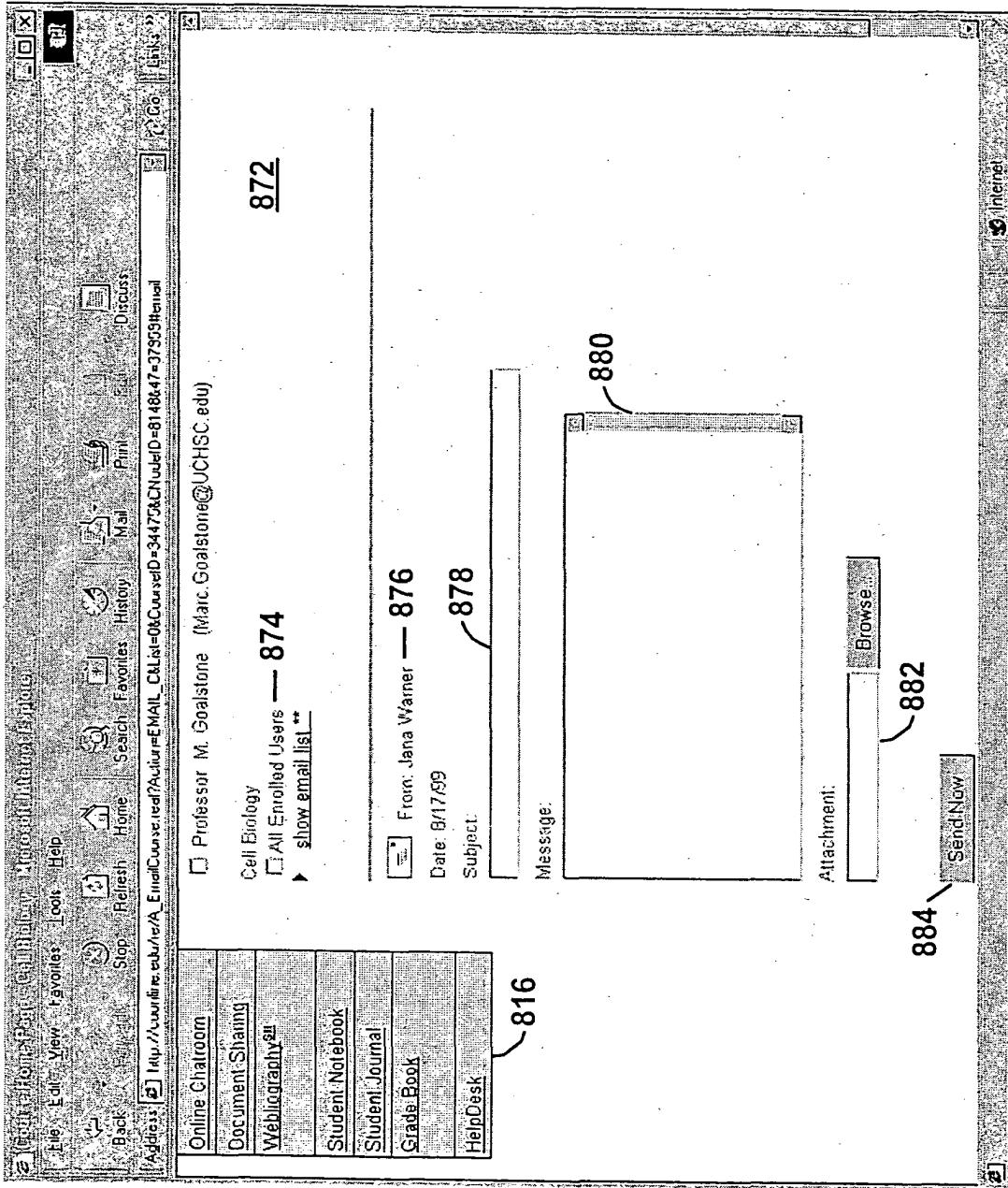
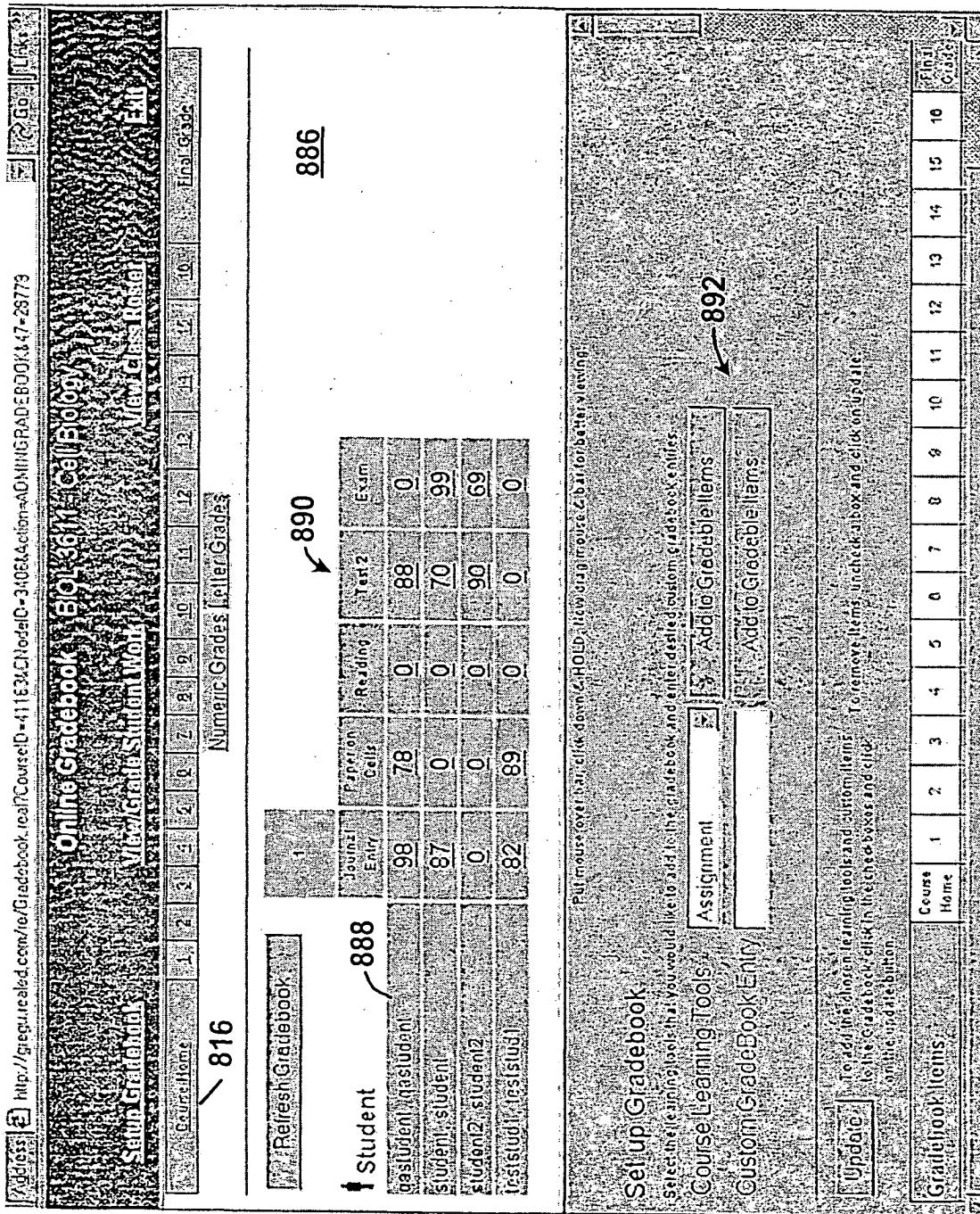


Fig 3D



**Fig 3E**

Title: ON-LINE EDUCATIONAL SYSTEM HAVING AN  
ELECTRONIC NOTEBOOK FEATURE

Inventor(s): Vance Allen et al.  
Docket No.: 42892.0117

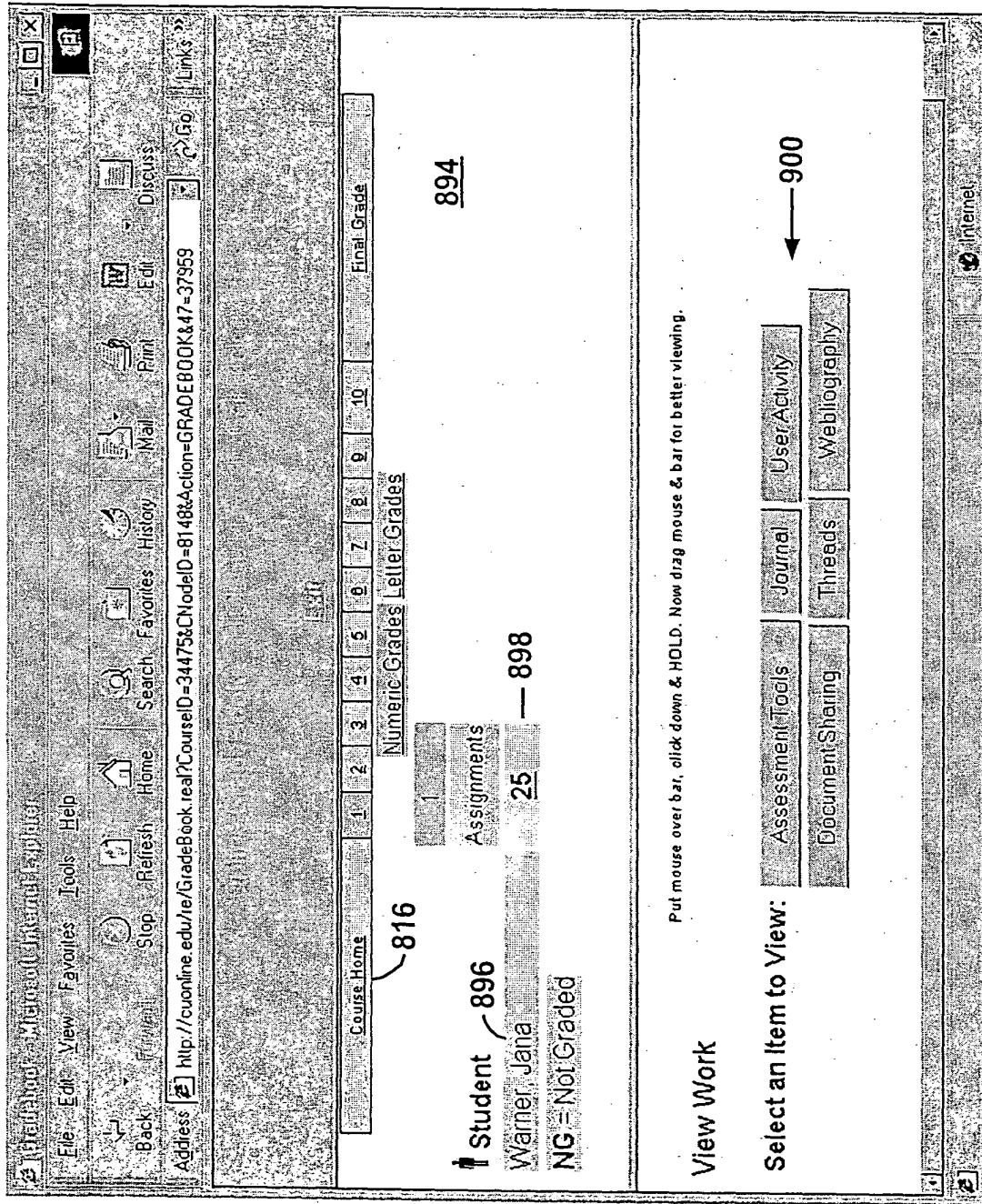


Fig 3F

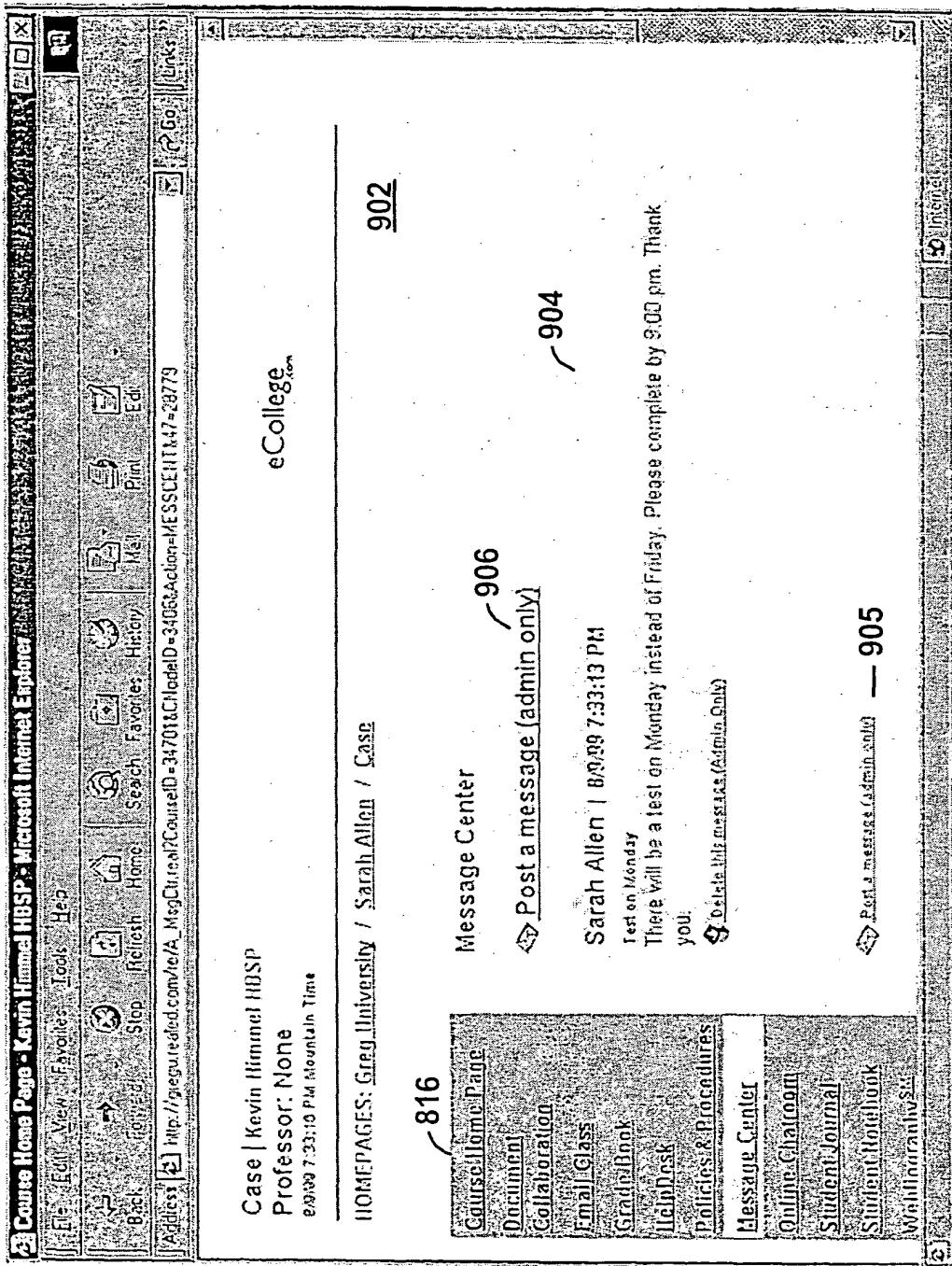


Fig 3G

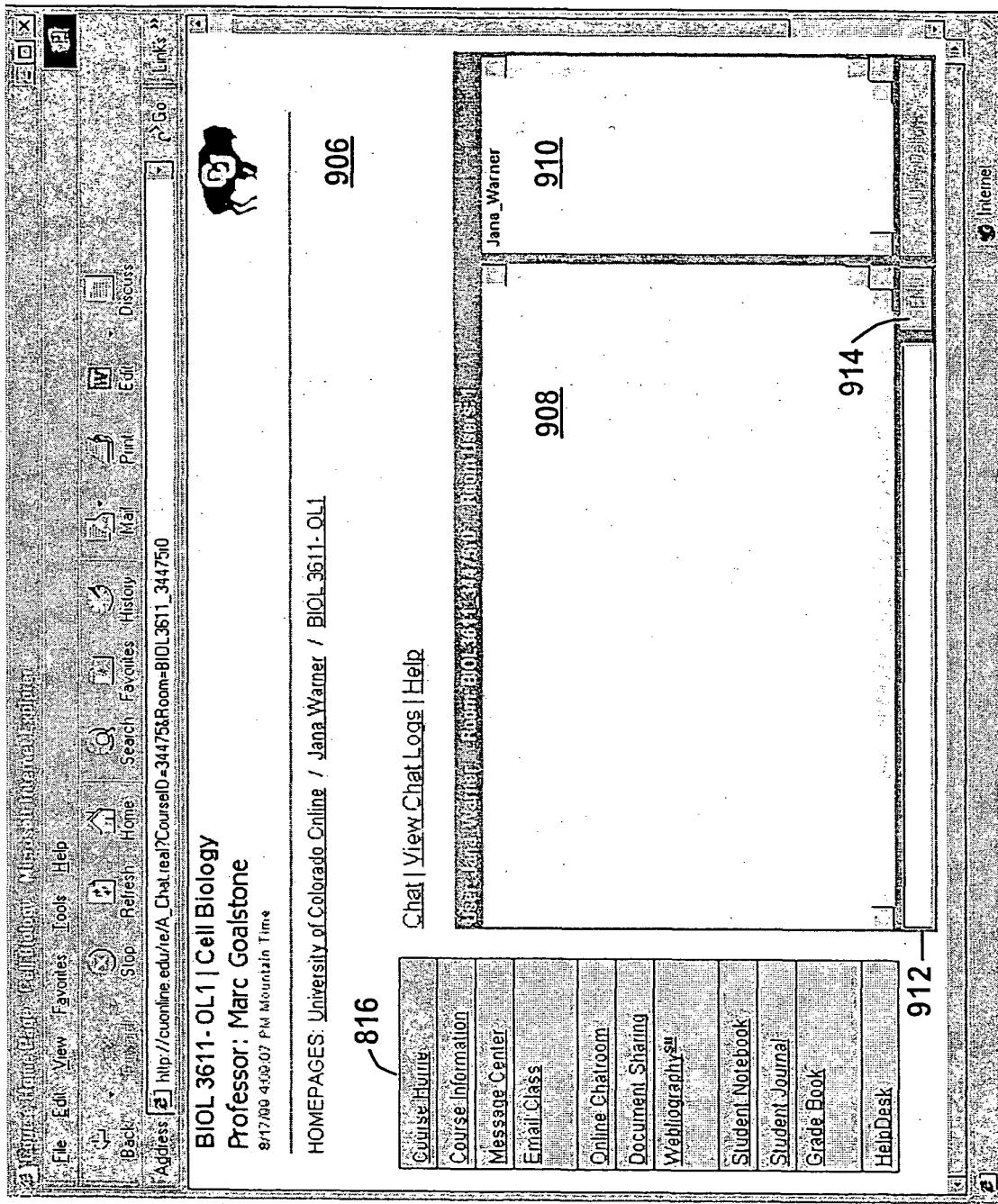


Fig 3H

Case | Kevin Himmel NBSP  
Professor: None  
8/22/99 7:49:23 PM Mountain Time

HOME PAGES: Grey University / Sarah Allen / Case

816

eCollege.com

Student Journal

→ Start New Journal Entry — 918

ENTRIES ▶ EXPAND ALL | COLLAPSE ALL — 920

916

918

920

922

924

926

928

930

932

My favorite Chapter  
Last modified by student: 8/22/99 7:41:10 PM — 924  
Last modified by instructor: 8/22/99 7:41:10 PM — 924

I thought Chapter 5 was really interesting — 926

Prof comments: I'm glad you enjoyed it. — 928

→ Edit This Journal Entry — 930

What I think  
Last modified by student: 8/22/99 7:39:43 PM — 932  
Last modified by instructor: Not modified

ADMIN ONLY  
LINKS  
Course Manager  
ProfHelp

Student Notebook  
Writing Journal  
Portfolio Notebook  
Student Journal  
Student Portfolio  
Writing Journal  
Portfolio Notebook

Fig 31

Title: ON-LINE EDUCATIONAL SYSTEM HAVING AN  
ELECTRONIC NOTEBOOK FEATURE  
Inventor(s): Vance Allen et al.  
Docket No.: 42892.0117

Address: [http://cuonline.edu/ie/A\\_Notebook/real/2CourseID=344754/CNoteID=8148&Action=NOTEBOOK&ActionID=37959](http://cuonline.edu/ie/A_Notebook/real/2CourseID=344754/CNoteID=8148&Action=NOTEBOOK&ActionID=37959)

8/17/98 3:44:26 PM Mountain Time

HOME PAGES: University of Colorado Online / Jana Warner / BIOL 3611-OL1

816 932

**BIOL 3611-OL1 | Cell Biology**  
Professor: Marc Goalstone

**Notebook**  
Please be sure to click on the "Save Notes" button to avoid losing your notes.

936 934

**Course Home**  
**Course Information**  
**Message Center**  
**Email Class**  
**Online Chatroom**  
**Document Sharing**  
**Weblog/Archives**  
**Student Notebook**  
**Student Journal**  
**Grade Book**  
**Helpdesk**

Save Notes

Save Notes

Internet

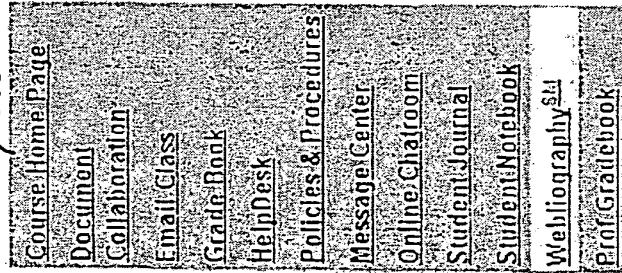
**Fig 3J**

eCollege

BIOL 3611 | Cell Biology  
Professor: prof prof  
at 08:08 7:52:28 PM Mountain Time

HOME PAGES: Gray University / Sarah Allen / BIOL 3611

816



938

- Webliography — 940
- view
- all entries — 942
- search — 944

Results  
2 item(s) are in the webliography.

- Great Resource — 946  
Description: This is a great source to find content in cell biology — 948
- My favorite — 950  
Description: This is where you can talk to other cell biology researchers — 952

ADMIN ONLY  
LINKS  
Course Manager  
Profile

Fig 3K

HOME/PAGES: Grey University / Sarah Allen / Orientation Course / Unit 5: How Do I Communicate with my P.I.  
Home 1 2 3 4 5 6 7 8 9

816

Thread Topics

↳ Why are you taking an online course? — 956  
↳ Have ever taken a course online before? — 958

ADD A TOPIC (ADMIN ONLY)

Have ever taken a course online before?

Keith Miller | 7.21.98 4:13:08 pm

960

More and more people are taking courses online. If you are one of the pioneering types who has been down this road before, perhaps you have experiences or advice to offer those who are now joining you in this new academic environment.

RESPOND TO THIS TOPIC | EDIT TOPIC (ADMIN ONLY) | DELETE TOPIC (ADMIN ONLY)

962 964

Responses

968 970 972

display by: TOPIC | DATES | AUTHOR — 972

SHOW EXPANDED VIEW

1. This is great. I am... Susan Kaisen | 8.8.99 7:51:49 pm 974

This is great. I am... Susan Kaisen | 8.8.99 7:51:49 pm 974

RESPOND TO THIS POST | DELETE THIS POST (ADMIN ONLY)

976 978

ADMIN ONLY  
LINKS  
Course Manager  
DropHelp

Course Home Page  
Grade Book  
HelpDesk  
Documents  
Collaboration  
Email Class  
Grade Book  
HelpDesk  
Documents & Procedures  
Message Center  
Online Classroom  
Student Journal  
Student Notebook  
Webillonary  
Prof Gradebook

Fig 3L

Time Remaining: 0 hours 09 minutes 03 seconds	← 982						
<p>1. With online courses you do not have daily contact with your professor. Does this mean all online courses are self-paced? (1 point)</p> <p>(s) <b>984</b></p> <p>C Yes</p> <p>C No</p>	<p><b>980</b></p>						
<p>2. Match the following terms with the correct definition. (3 point(s))</p> <table border="1"><tr><td><p>1) This synchronous form of communication can take place with the entire class, a small group, or a private meeting between my professor and me. In this type of communication, everyone involved must be logged in at the same time.</p><p><input type="checkbox"/> E-mail</p></td><td><p>986</p></td></tr><tr><td><p>2) This is what I would use to contact a fellow student(s) and/or the professor, without the message becoming a permanent part of the course.</p><p><input type="checkbox"/> Syllabus</p></td><td></td></tr><tr><td><p>3) My instructor may use one of these to communicate due dates for the course, and other course information.</p><p><input type="checkbox"/> Online Classroom</p></td><td></td></tr></table>		<p>1) This synchronous form of communication can take place with the entire class, a small group, or a private meeting between my professor and me. In this type of communication, everyone involved must be logged in at the same time.</p> <p><input type="checkbox"/> E-mail</p>	<p>986</p>	<p>2) This is what I would use to contact a fellow student(s) and/or the professor, without the message becoming a permanent part of the course.</p> <p><input type="checkbox"/> Syllabus</p>		<p>3) My instructor may use one of these to communicate due dates for the course, and other course information.</p> <p><input type="checkbox"/> Online Classroom</p>	
<p>1) This synchronous form of communication can take place with the entire class, a small group, or a private meeting between my professor and me. In this type of communication, everyone involved must be logged in at the same time.</p> <p><input type="checkbox"/> E-mail</p>	<p>986</p>						
<p>2) This is what I would use to contact a fellow student(s) and/or the professor, without the message becoming a permanent part of the course.</p> <p><input type="checkbox"/> Syllabus</p>							
<p>3) My instructor may use one of these to communicate due dates for the course, and other course information.</p> <p><input type="checkbox"/> Online Classroom</p>							

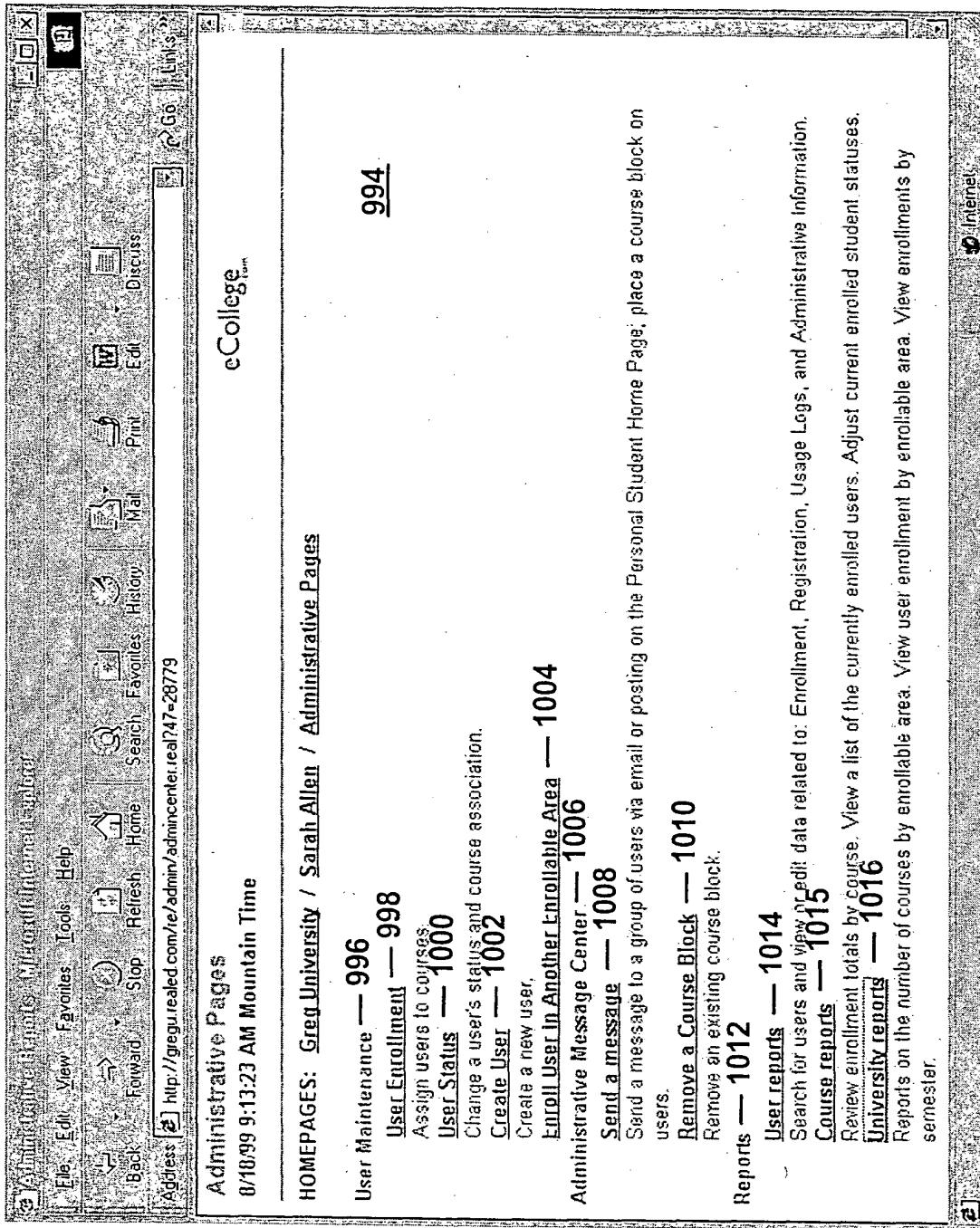
Exam Navigation:  
Click on the buttons below to switch between exam sections. Clicking on the buttons will also store your answers.

Exam Home  Section 1  Section 2  Section 3 ← 988

Store Answers  Submit Exam For Grading

992

**Fig 3M**



**Fig 3N**

Title: ON-LINE EDUCATIONAL SYSTEM HAVING AN  
ELECTRONIC NOTEBOOK FEATURE

Inventor(s): Vance Allen et al.  
Docket No.: 42892.0117

File Edit View Favorites Tools Help

Stop Refresh Home Search Favorites History Mail Print Discuss

Address: <http://greg.raleigh.com/he/admin/UserSelectreal?Type=enroll&ID=28779>

1018

		GU Student	Sales
<input type="checkbox"/>	molaison, al	aim@realeducation.com	Sales
<input type="checkbox"/>	Molaison, Al	aim@realeducation.com	GU Student
<input type="checkbox"/>	Oda, Alan	ayoda@apu.edu	GU Professor
<input type="checkbox"/>	Talburt, Anthony	anthonyt@ecollege.com	Temporary
<input type="checkbox"/>	Talburt, Anthony	anthonyt@ecollege.com	GU Professor
<input type="checkbox"/>	test, andy	andy@realeducation.com	Real Ed Internal Training
<input type="checkbox"/>	tomorrowis, anotherday	chriss@realeducation.com	— 1020
<input type="checkbox"/>			

Enroll this User in Courses

Internet

Fig 30

File Edit View Favorites Tools Help

Stop Refresh Home Search Favorites History Mail Print Discuss

Address: <http://gregreal.com/e/admin/UserStatreal>

Enrollment Information for andy test

1022

School	Current Status	Set New Status*	New Comment
Sales	GU Student	<input type="text"/>	Enrolled In GregU - Assigned Role by Real System Admin — 1024

1026

Course Enrollment				
School	Semester	Course	Current Status	Set New Status*
Sales	Demonstration	Jimf101	GU Student	<input type="text"/>
Greg	Special University Courses	Orientation Course	GU Student	<input type="text"/>

1028

School	Semester	Course	Current Status	Set New Status*	New Comment
Sales	Demonstration	Jimf101	GU Student	<input type="text"/>	Added to Course via ADD/DRC
Greg	Special University Courses	Orientation Course	GU Student	<input type="text"/>	Auto Enroll in Orientation Course (from RS Admin Pages)

Update

Done

Internet

Fig 3P

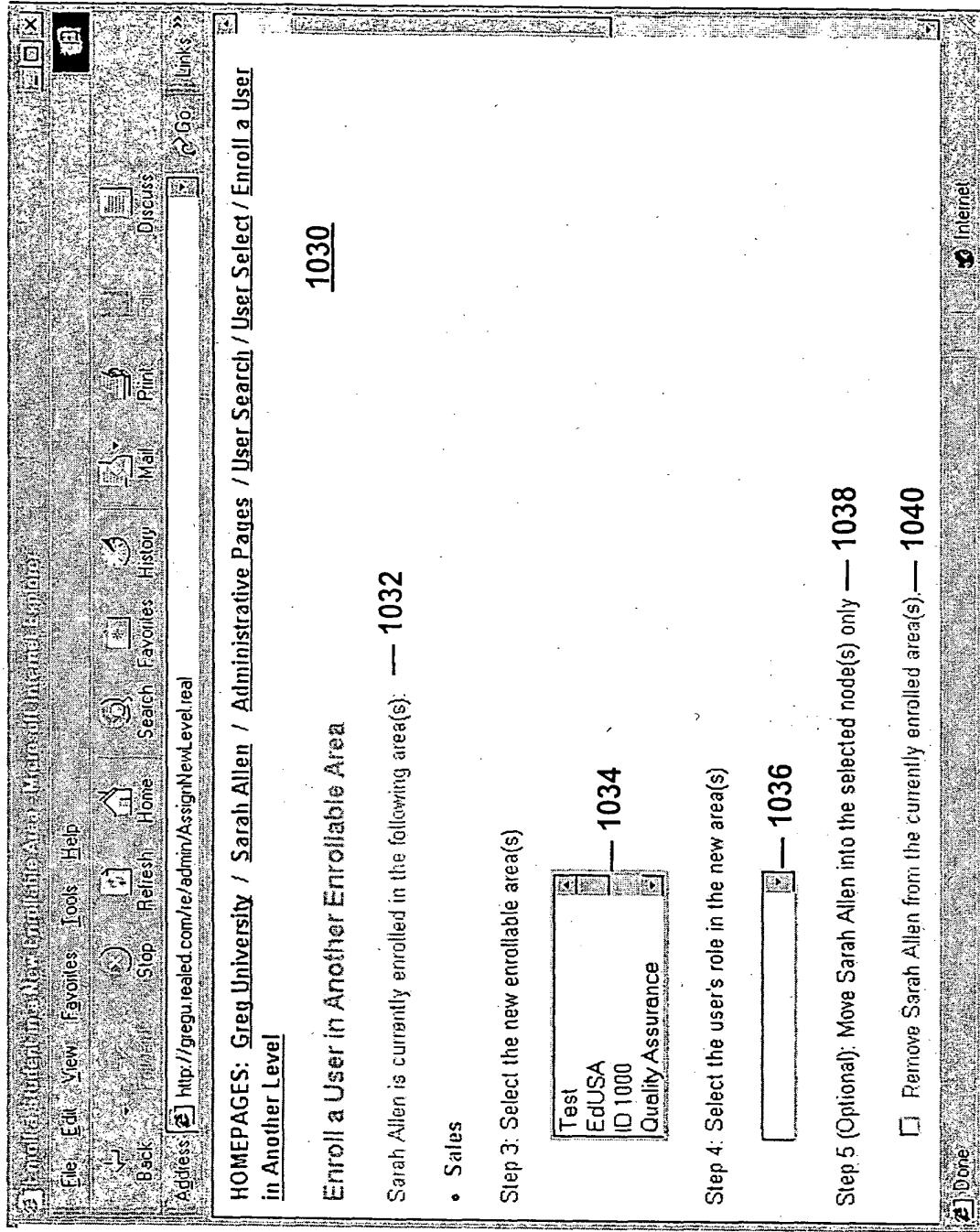


Fig 3Q

Title: ON-LINE EDUCATIONAL SYSTEM HAVING AN ELECTRONIC NOTEBOOK FEATURE

Inventor(s): Vance Allen et al.  
Docket No.: 42892.0117

File Edit View Favorites Tools Help

Back Stop Refresh Home Search Favorites History Mail Print Discuss

Address:  Step 4: Review user selection list, compose and send message

1052  1042  1044  1046  1048  1050

Name	Email Address	Message Header	Message Text
Baker, Beth	bethb@ecollege.com		
blink, blink	chriss@eaied.com		
bob, bob	rebeccaw@realeducation.com		
bob16, bob16	bob16@realeducation.com		
Bunn, Becky	beckyb@ecollege.com		
Carter, Beny	carter@realed.com		
Dobrin, Beny	beniy@realed.com	<input checked="" type="checkbox"/> send this message as email	
Dobrin, Beny	beniyd@realeducation.com	<input checked="" type="checkbox"/> send this message as web page post	<input checked="" type="checkbox"/> block these users from their course
Feldman, Ratsv	bertsy@heinemann.com	<input checked="" type="checkbox"/> Send Message	

Done  Home

Fig 3R

The screenshot shows a web browser window with the following details:

- Address Bar:** http://gregu.edu/admin/UserReports/real?ReplyType=1&I=28779
- Menu Bar:** File, Edit, View, Favorites, Tools, Help
- Toolbar:** Back, Stop, Refresh, Home, Search, Favorites, History, Print, Mail, Discuss
- Content Area:**
  - Page Title:** eCollege 1054
  - User Information:** Sarah Allen (Real)
  - Navigation Links:** Adminstrative Pages, Greg University, Sarah Allen, Adminstrative Pages, User Search, User Reports
  - Section:** Enrollment Information | Registration History | Payment Information | Log | Full Detailed Report | Adminstrative Login
  - User Reports:** Brett Krichiver
  - Table:** Displays enrollment information for Sarah Allen across various courses and semesters.
- Table Data:** (Extracted from the screenshot)

School	Semester	Course	Status date	Status	Comment
Greg University			07/21/99	GU Drop	SYSTEM Auto Enroll Basic Orientation
Greg University			02/03/99	GU Student	SYSTEM Auto Enroll Basic Orientation
Greg University	Special Courses	Orientation Course	07/21/99	GU Student	Auto Enroll in Orientation Course (from RS Admin Pages)
Sales	N/A	N/A	02/03/99	GU Professor	Enrolled in GregU - Assigned Role by Real System Admin
Sales	Demonstration	CD101	02/25/99	GU Student	
Sales	Demonstration	Sales	02/03/99	GU Professor	

\* Denotes enrollable area status

Done

Fig 3S

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Discuss

Address  Go Links

Course Reports 1058 1062

The course enrollment information and the current status of users in the course is listed below. To change a user's status in the course, select it from the 'Set New Status' option and click the 'Update' button at the bottom of the screen.

Quality Assurance Semester - Accredited Buyer Representative

Max Enrollment	25	Current Enrollment	2	Pending Waitlist	0	— 1060
Current Enrollment	2	Waitlist	0			

Name	Email Address	Current Status	Set New Status*	Set Status Comment
Skudlarzyc, Chris	chris@ecollege.com	GU Student	<input type="text"/>	<input type="text"/>
test, test	test	GU Student	<input type="text"/>	<input type="text"/>

Fig 3T

Title: ON-LINE EDUCATIONAL SYSTEM HAVING AN  
ELECTRONIC NOTEBOOK FEATURE

Inventor(s): Vance Allen et al.

Docket No.: 42892.0117

The screenshot shows a web browser window with the following details:

- Address Bar:** http://gieu.ralead.com/re/admin/UnivReports/realtACT=COURSE
- Toolbar:** Back, Forward, Stop, Refresh, Home, Search, Favorites, History, Print, Mail, Edit, Discuss, Go, Links.
- Page Content:**
  - Administrative Pages** (highlighted in red)
  - 8/18/99 9:47:34 AM Mountain Time
  - HOME PAGES: Greg University / Sarah Allen / Administrative Pages / University Reports**
  - University Reports**
  - Course Count per Area | User Count per Enrollable Area | Enrollment per Semester**
  - Course Count per Area** (highlighted in red) **1066**
  - Course Count per Area Data:**

Area	Courses
Greg University	5
ReaIED	1
EduUSA	8
ID 1000	0
Quality Assurance	10
Real Ed Internal Training	89
Sales	126

**Fig 3U**

Title: ON-LINE EDUCATIONAL SYSTEM HAVING AN ELECTRONIC NOTEBOOK FEATURE

Inventor(s): Vance Allen et al.

Docket No.: 42892.0117

Address: <http://greguealed.com/eCourseManager/CM/testCourseID=41163&ClassID=3408847-2879>

**CM AX/IMP**

**1068**

**BIOl 3611 | Coll Biology**  
Professor: prof prof  
Systime: 10:17:51 AM Mountain Time

**HOME PAGES: Greg University / Sarah Allen / BIOl 3611**

**1070**

**Course Home Page**

*Click here for Introductory Video (Video)*

**1072** **1074** **1076**

Unit	Title	1072	1074	1076
1	January	19-24	25-31	1-7
2	February	8-13	14-20	21-27
3	March	1-7	8-14	15-21
4	April	18-24	25-31	1-7
5	May	8-14	15-21	22-28
6	June	1-7	8-14	15-21
7	July	8-14	15-21	22-28
8	August	1-7	8-14	15-21
9	September	8-14	15-21	22-28
10	October	1-7	8-14	15-21
11	November	8-14	15-21	22-28
12	December	1-7	8-14	15-21

**Course Home Page**

**Document Collaboration**

**Email Class**

**Gradebook**

**HelpDesk**

**Calendars & Procedures**

**Message Center**

**Online Chatroom**

**Student Journal**

**Student Notebook**

**Webinar Calendar**

**Prof Gradebook**

**1069**

**BIOl 3611**

**Unit1** **Unit2** **Unit3** **Unit4** **Unit5** **Unit6** **Unit7** **Unit8** **Unit9** **Unit10** **Unit11**

**Unit Audio** **Unit Audio**

**Reading** **Reading**

**Event Key** **Event Key**

**Upcoming Events** **Upcoming Events**

**Study Guide** **Study Guide**

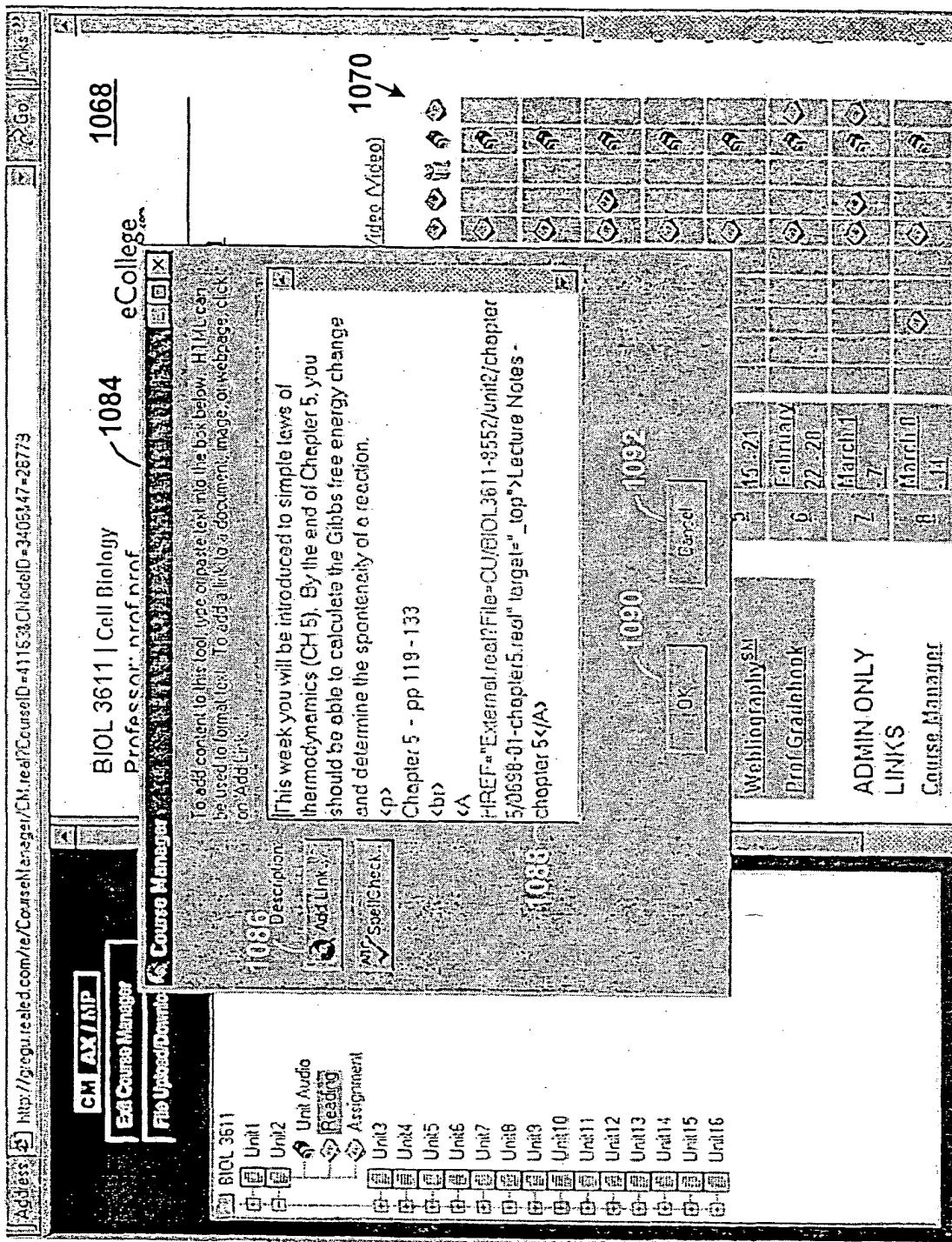
**Unit 1** **Unit 2** **Unit 3** **Unit 4**

**LINKS**

**Course Manager**

**Fig 3V**

Fig 3W



**Fig 3X**

Title: ON-LINE EDUCATIONAL SYSTEM HAVING AN  
ELECTRONIC NOTEBOOK FEATURE

Inventor(s): Vance Allen et al.  
Docket No.: 42892.0117

Author View 1103 1102 1108 1116 1122 1100

Using the Internet 1104

Course Author Course Admin Email Chat Doc Sharing Journal Weblography

Gradebook Course Admin Email Chat Doc Sharing Journal Weblography

Course Home 1110 1112 1114 1118 1120 Using the Internet

Course Administration

View/Edit Class Roster

Edit Course Information

General Course Information

Course Start Date : July 9 1999

Course End Date : July 9 2000

Course Title : Using the Internet

Unit Heading : Unit

Instructor Title : Instructor

Update

Course Enrollment Code

The course enrollment code is an access code, which can be given to students to enroll in this course. The code can be used by multiple students. To enroll, students enter the code in the access code input box at <http://www.ecollege.com>.

Course Enrollment Code : edg-IT101-GBGFELQ

Logout Help

© 1999 eCollege.com

1124

1106

FIG. 4A

Title: ON-LINE EDUCATIONAL SYSTEM HAVING AN  
ELECTRONIC NOTEBOOK FEATURE

Inventor(s): Vance Allen et al.  
Docket No.: 42892.0117

Course View 1103 1102 1108 1116 1122 1126

Using the Internet 1104

Course Author 1110

Course Home 1112

Tables 1114

Unit 1 1118

Unit 2 1120

Unit 3

Unit 4

Unit 5

Unit 6

Unit 7

Unit 8

Unit 9

Unit 10

Using the Internet 1128

College

Course Admin

Gradebook

Email Chat Doc Sharing & Journal Weballery

Using the Internet

Course Administration

View/Edit Class Roster

Edit Course Information

To edit a user's status within your course or drop a user from your course, click on the user's status.

Add New User

Last Name	First Name	Username	Email Address	Status
Schroeder	Veronica	veronica	veronica@read.com	Professor
Henderson	Ray	ray	ray@college.com	Student
Heimlick	Rob	rob	rob@college.com	Teaching Assistant

The following users have not logged in to the course and set up a user profile:

Last Name	First Name	User Enrollment Code	Email Address	Status
Heimlick	Rob	eclg-IT101-1BOFEKY	rob@college.com	Student
Henderson	Ray	eclg-IT101-FBFELP	ray@college.com	Student
Schroeder	Veronica	eclg-IT101-G8GFELQ	veronica@read.com	Professor
Sigman	Jim	eclg-IT101-THBFELR	Jim@college.com	Student
McClish	Kendrick	eclg-IT101-1BIFELS	kandrick@read.com	Student
Leonard	Pat	eclg-IT101-3BDFELU	Pat@jjsdju.edu	Student

Exit course Logout Help

<http://beta.ecollege.com/ecollege/aut/autteam/012782/UseIt!> © 1999 eCollege.com

Internet Zone

1106

FIG. 4B

## Calendar

30

FIG. 4C

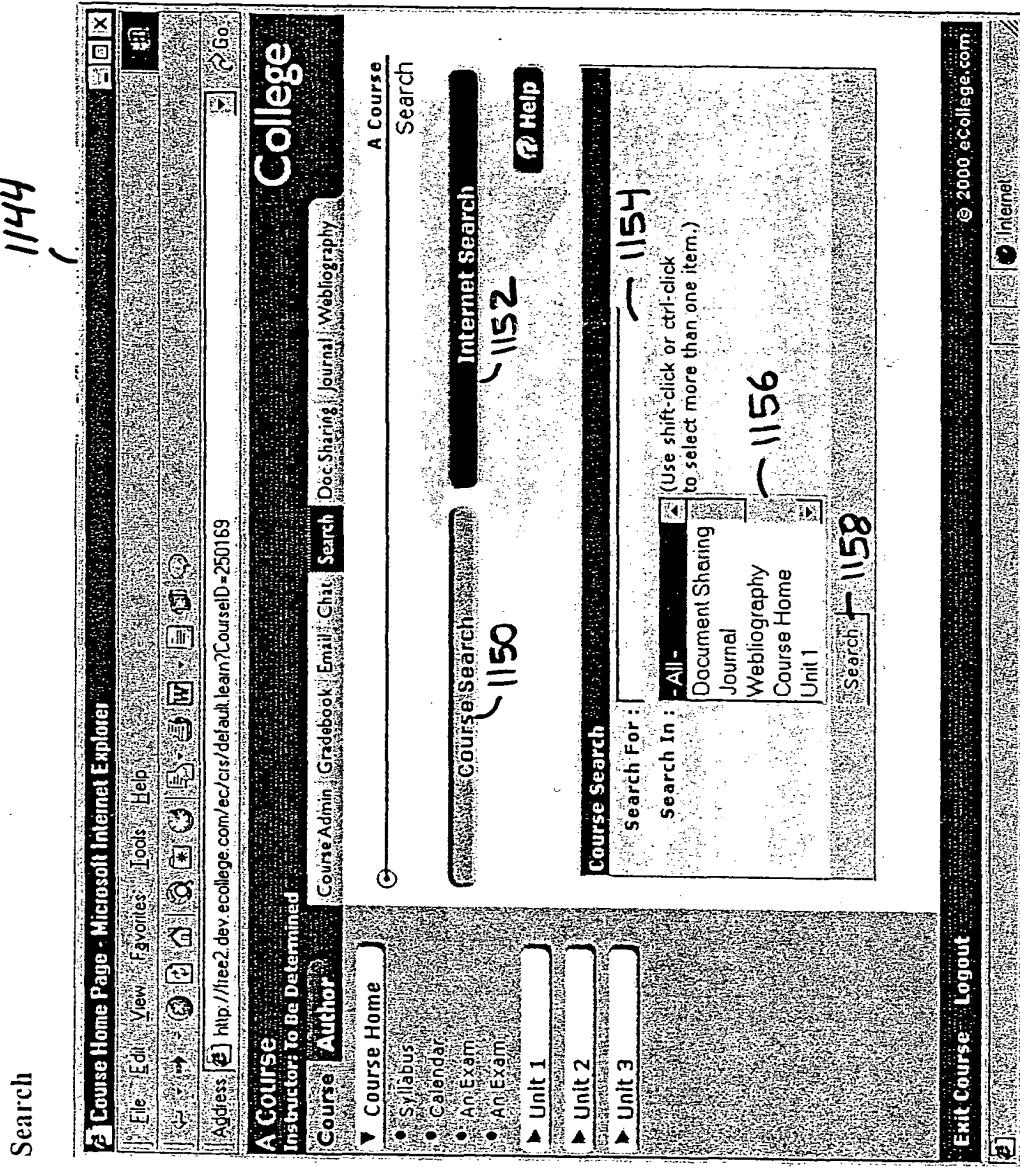


FIG. 4D

1146  
Search Results

1160

Course Home Page - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://hee2.dav.ecollege.com/ect/crs/default.htm?CourselD=290169

College

A Course

Instructor: To Be Determined

Course Author

Course Home

- Syllabus
- Calendar
- An Exam
- An Exam

Unit 1

Unit 2

Unit 3

Document Sharing

1161

1 - 2 - 3 NextArrow>

Your search matched 55 items in this course. Results are sorted by course tool and course unit below:

1162

1163

Entry Title FirstName LastName  
This is the best journal entry that I have ever written. It is neat that this entry has been entered and stuff is really fun now.

Entry Title FirstName LastName  
This is the second best document that I have ever read.

Entry Title FirstName LastName  
This is the best document I have ever read.

Journal

Logout

© 2000 eCollege.com

Internet

FIG. 4E

Full Search Results

1148

Your search matched 55 items in this course. Results are sorted by course tool and course unit below:

**Document Sharing**

**FileName.ext - FirstName LastName**

This is the best document I have ever read.

**FileName2.ext - FirstName LastName**

This is the second best document that I have ever read.

**Course Home**

**Announcements - Announcements Title**

This is the second best announcement for this class ever.

**Announcements - Another Title**

This is the best announcement for this class ever.

**Course Introduction**

This is the best course ever. This is the best course ever. This is the best course ever. This is the best course ever.

**Syllabus - The Course Description**

The course description.

**Calendar - Custom Course Event Title**

The purpose of this event is to see a new movie and come back and report on this movie in the class threaded discussion.

**Unit 4**

**Discussion**

The thing that I think is most convincing is that fact that I have no idea what else to say, I mean I am really at a lose for words. I hope that I will think of something...

**Course Search**

**Search For :**

**Search In :**

- All -

Document Sharing

Journal

Webliography

Course Home

Unit 1

(Use shift-click or ctrl-click  
to select more than one item.)

**Search**

FIG. 4F